

Deciphering the Prehistory of Language with Triangulated Y-Chromosome-Based Models



Supplementary Tables

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Supplementary Tables for Chapter Two and Haplogroup A



Supplementary Table 2.1. Contemporary Distribution of A1b-V50.

Region	Language Group	Language Family	Population	Sample Size	A1b-V50	Reference
Sub-Saharan Africa						
	Khoisan					
		Khoe-Kwadi	G ui	18	0.500	Bajic et al. 2018
		Khoe-Kwadi	Naro	21	0.286	Bajic et al. 2018
		Khoe-Kwadi	!Kung	32	0.250	Wood et al. 2005
		Kx'a	Ju 'hoan	52	0.231	Bajic et al. 2018
		Kx'a	ǀHoan	13	0.231	Bajic et al. 2018
		Kx'a	Ju 'hoan	58	0.220	Marks et al. 2015
		Tuu	Taa	75	0.173	Bajic et al. 2018
		Khoe-Kwadi	!Xun	25	0.160	Bajic et al. 2018
		Khoe-Kwadi	Nama	11	0.090	Wood et al. 2005
		Khoe-Kwadi	Tshwa	15	0.067	Bajic et al. 2018
		Kx'a	Hai om	37	0.027	Bajic et al. 2018

Supplementary Table 2.2. Contemporary Distribution of A1b-M51.

Region	Language Group	Language Family	Population	Sample Size	A1b-M51	Reference
Sub-Saharan Africa						
	Bantoid					
		Niger-Congo	Sotho	267	11.0%	Marks et al. 2015
		Niger-Congo	Herero	29	10.3%	Bajic et al. 2018
		Niger-Congo	Kgalagadi	21	9.5%	Bajic et al. 2018
		Niger-Congo	Tswana	28	7.0%	Wood et al. 2005
		Niger-Congo	Xhosa	80	5.0%	Wood et al. 2005
		Niger-Congo	Thembu	23	4.0%	Marks et al. 2015
		Niger-Congo	Ndebele	52	4.0%	Marks et al. 2015
		Niger-Congo	Zulu	29	3.0%	Wood et al. 2005
		Niger-Congo	Zulu	54	2.0%	Marks et al. 2015
		Niger-Congo	Xhosa	57	2.0%	Marks et al. 2015
	Khoisan					
		Khoe-Kwadi	Nama	11	55.0%	Wood et al. 2005
		Khoe-Kwadi	Naro	21	42.9%	Bajic et al. 2018
		Kx'a	Hai om	37	37.8%	Bajic et al. 2018
		Khoe-Kwadi	!Xun	25	32.0%	Bajic et al. 2018
		Khoe-Kwadi	Nama	28	28.6%	Bajic et al. 2018
		Kx'a	Ju 'hoan	52	23.1%	Bajic et al. 2018
		Khoe-Kwadi	!Kung	32	22.0%	Wood et al. 2005
		Khoe-Kwadi	Ani/Buga	24	20.8%	Bajic et al. 2018
		Khoe-Kwadi	Xo	20	20.0%	Bajic et al. 2018
		Kx'a	Ju 'hoan	58	17.0%	Marks et al. 2015

Region	Language Group	Language Family	Population	Sample Size	A1b-M51	Reference
		Tuu	Taa	75	13.3%	Bajic et al. 2018
		Khoe-Kwadi	Damara	36	8.3%	Bajic et al. 2018
		Khoe-Kwadi	Shua	24	8.3%	Bajic et al. 2018
		Khoe-Kwadi	G ui	18	5.6%	Bajic et al. 2018
		Khoe-Kwadi	Tshwa	15	1.3%	Bajic et al. 2018

Supplementary Table 2.3. Contemporary Distribution of A1b-M13.

Region	Language Group	Language Family	Population	Sample Size	A1b-M13	Reference
Middle East						
	Semitic					
		Afro-Asiatic	Jordanians	72	1.4%	D'Atanasio et al. 2018
		Afro-Asiatic	Yemenites	94	1.1%	D'Atanasio et al. 2018
North Africa						
	Berber					
		Afro-Asiatic	Souss Berbers	34	2.9%	D'Atanasio et al. 2018
		Afro-Asiatic	Moyen Atlas Berbers	69	2.9%	D'Atanasio et al. 2018
	Chadic					
		Afro-Asiatic	Hausa	32	13.0%	Hassan et al. 2008
	Cushitic					
		Afro-Asiatic	Beja	42	5.0%	Hassan et al. 2008
	Nilo-Saharan					
		Nilo-Saharan	Dinka	26	62.0%	Hassan et al. 2008
		Nilo-Saharan	Shilluk	15	53.0%	Hassan et al. 2008
		Nilo-Saharan	Nubians	28	46.0%	Hassan et al. 2008
		Nilo-Saharan	Masalit	32	19.0%	Hassan et al. 2008
	Semitic					
		Afro-Asiatic	Northern Egyptians	52	5.8%	D'Atanasio et al. 2018
		Afro-Asiatic	Egyptians from Gurna Oasis	34	2.9%	D'Atanasio et al. 2018
		Afro-Asiatic	Egyptian Berbers from Siwa	93	1.1%	D'Atanasio et al. 2018

Sub-Saharan Africa

Region	Language Group	Language Family	Population	Sample Size	A1b-M13	Reference
	Bantoid					
		Niger-Congo	Baganda (Ganda)	26	8.0%	Wood et al. 2005
		Niger-Congo	Hema	18	6.0%	Wood et al. 2005
	Berber					
		Afro-Asiatic	Tuareg	22	9.1%	D'Atanasio et al. 2018
	Chadic					
		Afro-Asiatic	Massa	11	27.3%	D'Atanasio et al. 2018
		Afro-Asiatic	Hausa	9	22.2%	D'Atanasio et al. 2018
		Afro-Asiatic	Podowko	5	20.0%	D'Atanasio et al. 2018
		Afro-Asiatic	Massa	7	14.3%	D'Atanasio et al. 2018
		Afro-Asiatic	Mandara	28	14.0%	Wood et al. 2005
		Afro-Asiatic	Mandara	82	13.4%	D'Atanasio et al. 2018
		Afro-Asiatic	Other Chadic	8	12.5%	D'Atanasio et al. 2018
		Afro-Asiatic	Mandara	30	10.0%	Batini et al. 2011
		Afro-Asiatic	Daba	29	3.4%	D'Atanasio et al. 2018
	Cushitic					
		Afro-Asiatic	Ethiopian Jews	22	40.9%	D'Atanasio et al. 2018
		Afro-Asiatic	Oromo	62	19.4%	D'Atanasio et al. 2018
		Afro-Asiatic	Oromo	37	19.0%	Batini et al. 2011
		Afro-Asiatic	Oromo	18	17.0%	Haber et al. 2016
		Afro-Asiatic	El Molo	23	13.0%	Batini et al. 2011
		Afro-Asiatic	Oromo	9	11.0%	Wood et al. 2005
		Afro-Asiatic	Oromo	78	10.0%	Hassan et al. 2008
	Isolate - Sandawe					

Region	Language Group	Language Family	Population	Sample Size	A1b-M13	Reference
		Isolate - Sandawe	Sandawe	68	6.0%	Tishkoff et al. 2007
	Nilo-Saharan					
		Nilo-Saharan	Gumuz	17	59.0%	Haber et al. 2016
		Nilo-Saharan	Nilotic from Karamoja	64	42.2%	D'Atanasio et al. 2018
		Nilo-Saharan	Ng'arkarimjong	118	33.0%	Gomes et al. 2010
		Nilo-Saharan	Kanuri	7	28.6%	D'Atanasio et al. 2018
		Nilo-Saharan	Maasai	26	27.0%	Wood et al. 2005
		Nilo-Saharan	Alur	9	22.0%	Wood et al. 2005
		Nilo-Saharan	Nilotic from Western Kenya	10	20.0%	D'Atanasio et al. 2018
		Nilo-Saharan	Maasai	44	18.2%	D'Atanasio et al. 2018
		Nilo-Saharan	Turkana	6	16.7%	D'Atanasio et al. 2018
		Nilo-Saharan	Madjingay	15	13.3%	D'Atanasio et al. 2018
		Nilo-Saharan	Turkana	53	13.0%	Batini et al. 2011
		Nilo-Saharan	Luo	9	11.0%	Wood et al. 2005
		Nilo-Saharan	Songhai	10	10.0%	D'Atanasio et al. 2018
		Nilo-Saharan	Cunama	20	10.0%	D'Atanasio et al. 2018
		Nilo-Saharan	Ngambai	11	9.1%	D'Atanasio et al. 2018
		Nilo-Saharan	Datooga	35	9.0%	Tishkoff et al. 2007
		Nilo-Saharan	Ngambai	12	8.3%	D'Atanasio et al. 2018
		Nilo-Saharan	Nara	15	6.7%	D'Atanasio et al. 2018
		Nilo-Saharan	Maasai	17	6.0%	Haber et al. 2016
		Nilo-Saharan	Maasai	81	6.0%	Batini et al. 2011
		Nilo-Saharan	Samburu	34	3.0%	Batini et al. 2011
		Nilo-Saharan	Sara	61	2.0%	Haber et al. 2016

Region	Language Group	Language Family	Population	Sample Size	A1b-M13	Reference
	Non-Bantoid					
		Niger-Congo	Tupuri	9	22.0%	Wood et al. 2005
		Niger-Congo	Tupuri	9	11.0%	Batini et al. 2011
		Niger-Congo	Toupouri	31	9.7%	D'Atanasio et al. 2018
		Niger-Congo	Fulbe	79	7.6%	D'Atanasio et al. 2018
		Niger-Congo	Igala	40	5.0%	Batini et al. 2011
		Niger-Congo	Moundang	21	4.8%	D'Atanasio et al. 2018
	Omotic					
		Afro-Asiatic	Welayta	21	43.0%	Haber et al. 2016
		Afro-Asiatic	Wolayta	12	16.7%	D'Atanasio et al. 2018
		Afro-Asiatic	Dawro	78	8.0%	Batini et al. 2011
	Semitic					
		Afro-Asiatic	Amhara	27	30.0%	Haber et al. 2016
		Afro-Asiatic	Amhara	81	21.0%	D'Atanasio et al. 2018
		Afro-Asiatic	Amhara	18	17.0%	Wood et al. 2005
		Afro-Asiatic	Shuwa Arabs	6	16.7%	D'Atanasio et al. 2018
		Afro-Asiatic	Amhara	48	15.0%	Hassan et al. 2008
		Afro-Asiatic	Amhara	49	10.0%	Batini et al. 2011
		Afro-Asiatic	Tigrai	32	9.4%	D'Atanasio et al. 2018

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Supplementary Tables for Chapter Three and Haplogroup B-M60



Supplementary Table 3.1. Contemporary Distribution of the B2a-M150 Mutation.

Cultural Group	Language Group	Language Family	Population	Location	Sample Size	B2a-M150	Reference 2
Afro-Asiatic Farmers							
	Chadic	Afro-Asiatic	Uldeme	Cameroon	21	5%	Cruciani et al. 2002
Bantu Farmers							
	Bantoid	Niger-Congo	Ngumba (Ngoumba)	Cameroon	15	40%	Montano et al. 2011
	Bantoid	Niger-Congo	Kgalagadi	Botswana	21	38%	Barbieri et al. 2016
	Bantoid	Niger-Congo	Ngumba (Ngoumba)	Cameroon	24	33%	Berniell-Lee et al. 2009
	Bantoid	Niger-Congo	Tswana	Botswana	18	28%	Barbieri et al. 2016
	Bantoid	Niger-Congo	Eviya	Gabon	24	21%	Berniell-Lee et al. 2009
	Bantoid	Niger-Congo	Makaa (Makina)	Gabon	32	19%	Montano et al. 2011
	Bantoid	Niger-Congo	Tswana	South Africa	28	18%	Wood et al. 2005
	Bantoid	Niger-Congo	Totela	Zambia	13	15%	Barbieri et al. 2013
	Bantoid	Niger-Congo	Shira (Eshira)	Gabon	42	14%	Berniell-Lee et al. 2009
	Bantoid	Niger-Congo	Makaa (Makina)	Gabon	43	14%	Berniell-Lee et al. 2009
	Bantoid	Niger-Congo	Zulu	South Africa	29	14%	Wood et al. 2005
	Bantoid	Niger-Congo	Sotho	Lesotho	267	12%	Marks et al. 2015
	Bantoid	Niger-Congo	Kalanga	Botswana	19	11%	Barbieri et al. 2016
	Bantoid	Niger-Congo	Himba	Namibia	21	10%	Barbieri et al. 2016
	Bantoid	Niger-Congo	Shona	Zimbabwe	49	10%	Wood et al. 2005
	Bantoid	Niger-Congo	Ndebele	Lesotho	52	10%	Marks et al. 2015
	Bantoid	Niger-Congo	Ewondo	Cameroon	29	10%	Cruciani et al. 2002
	Bantoid	Niger-Congo	Benga	Gabon	22	9%	Montano et al. 2011
	Bantoid	Niger-Congo	Punu	Gabon	58	9%	Berniell-Lee et al. 2009

Cultural Group	Language Group	Language Family	Population	Location	Sample Size	B2a-M150	Reference 2
	Bantoid	Niger-Congo	Mitsogo (Tsogo)	Gabon	60	8%	Berniell-Lee et al. 2009
	Bantoid	Niger-Congo	Nzebi	Gabon	25	8%	Montano et al. 2011
	Bantoid	Niger-Congo	Xhosa	Lesotho	57	7%	Marks et al. 2015
	Bantoid	Niger-Congo	Mbugwe	Tanzania	15	7%	Tishkoff et al. 2007
	Bantoid	Niger-Congo	Ovimbundu	Angola	96	7%	Coelho et al. 2009
	Bantoid	Niger-Congo	Nzebi	Gabon	57	7%	Berniell-Lee et al. 2009
	Bantoid	Niger-Congo	Bamileke	Cameroon	32	6%	Montano et al. 2011
	Bantoid	Niger-Congo	Zulu	Lesotho	54	6%	Marks et al. 2015
	Bantoid	Niger-Congo	Ovambo	Namibia	20	5%	Barbieri et al. 2016
	Bantoid	Niger-Congo	Fang	Gabon	20	5%	Montano et al. 2011
	Bantoid	Niger-Congo	Teke (Bateke, Ateke)	Congo	19	5%	Montano et al. 2011
	Bantoid	Niger-Congo	Xhosa	South Africa	80	5%	Wood et al. 2005
	Bantoid	Niger-Congo	Duma	Gabon	46	4%	Berniell-Lee et al. 2009
	Bantoid	Niger-Congo	Obamba	Gabon	47	4%	Berniell-Lee et al. 2009
	Bantoid	Niger-Congo	Nyaneka-Nkhumbi	Angola	153	4%	Coelho et al. 2009
	Bantoid	Niger-Congo	Luhya	Kenya	50	4%	Haber et al. 2016
	Bantoid	Niger-Congo	Ewondo	Cameroon	26	4%	Montano et al. 2011
	Bantoid	Niger-Congo	Thembu	Lesotho	23	4%	Marks et al. 2015
	Bantoid	Niger-Congo	Teke (Bateke, Ateke)	Congo	38	3%	Batini et al. 2011
	Bantoid	Niger-Congo	Herero	Namibia	29	3%	Barbieri et al. 2016
	Bantoid	Niger-Congo	Kamba & Kikuyu	Kenya	42	3%	Wood et al. 2005
	Bantoid	Niger-Congo	Duma	Gabon	32	3%	Montano et al. 2011
	Bantoid	Niger-Congo	Ndumu	Gabon	36	3%	Berniell-Lee et al. 2009

Cultural Group	Language Group	Language Family	Population	Location	Sample Size	B2a-M150	Reference 2
	Bantoid	Niger-Congo	Ndumu	Gabon	33	3%	Montano et al. 2011
	Bantoid	Niger-Congo	Tiv	Nigeria	52	2%	Montano et al. 2011
	Bantoid	Niger-Congo	Galwa (Galoa)	Gabon	47	2%	Berniell-Lee et al. 2009
	Bantoid	Niger-Congo	Bassa	Cameroon	41	2%	Montano et al. 2011
	Bantoid	Niger-Congo	Tiv	Nigeria	54	2%	Batini et al. 2011
	Bantoid	Niger-Congo	Fang	Gabon	60	2%	Berniell-Lee et al. 2009
	Bantoid	Niger-Congo	Kele (Akele)	Gabon	50	2%	Berniell-Lee et al. 2009
Khoisan Hunter-Gatherers							
	Khoisan	Khoe-Kwadi	Gana	Botswana	19	79%	Barbieri et al. 2016
	Khoisan	Khoe-Kwadi	Gwi	Botswana	18	17%	Barbieri et al. 2016
	Khoisan	Tuu	!Xóǀ (Taa)	Botswana	75	16%	Barbieri et al. 2016
	Khoisan	Khoe-Kwadi	Shua	Botswana	24	8%	Barbieri et al. 2016
	Khoisan	Khoe-Kwadi	Ani	Botswana	24	8%	Barbieri et al. 2016
Mande Farmers							
	Mande	Niger-Congo	Samo	Burkina Faso	79	3%	Barbieri et al. 2012
Nilo-Saharan Farmers							
	Nilo-Saharan	Nilo-Saharan	Alur	Congo	9	56%	Wood et al. 2005
	Nilo-Saharan	Nilo-Saharan	Luo	Kenya	9	22%	Wood et al. 2005
	Nilo-Saharan	Nilo-Saharan	Ng'arkarimojong	Uganda	118	17%	Gomes et al. 2010
	Nilo-Saharan	Nilo-Saharan	Kanuri	Cameroon	12	8%	Batini et al. 2011
	Nilo-Saharan	Nilo-Saharan	Maasai	Kenya	26	8%	Wood et al. 2005
	Nilo-Saharan	Nilo-Saharan	Sara	Chad	61	5%	Haber et al. 2016
	Nilo-Saharan	Nilo-Saharan	Samburu	Kenya	34	3%	Batini et al. 2011
Non-Bantoid Farmers							
	Non-Bantoid	Niger-Congo	Samoya	Burkina Faso	21	19%	Barbieri et al. 2012

Cultural Group	Language Group	Language Family	Population	Location	Sample Size	B2a-M150	Reference 2
	Non-Bantoid	Niger-Congo	Fali	Cameroon	39	18%	Cruciani et al. 2002
	Non-Bantoid	Niger-Congo	Yoruba	Benin	60	9%	Fortes-Lima et al. 2015
	Non-Bantoid	Niger-Congo	Dogon	Mali	55	7%	Wood et al. 2005
	Non-Bantoid	Niger-Congo	Igala	Nigeria	40	5%	Batini et al. 2011
	Non-Bantoid	Niger-Congo	Igala	Nigeria	40	5%	Montano et al. 2011
	Non-Bantoid	Niger-Congo	Beti	Congo	36	3%	Batini et al. 2011
Pygmy Hunter-Gatherers							
	Bantoid	Niger-Congo	Gyele (Bakola)	Cameroon	22	18%	Berniell-Lee et al. 2009
	N/A	N/A	Mbuti	Congo	12	8%	Cruciani et al. 2002
	Bantoid	Niger-Congo	Aka (Biaka)	Central African Republic	20	5%	Cruciani et al. 2002
	Bantoid	Niger-Congo	Babinga	Congo	20	5%	Batini et al. 2011
	Bantoid	Niger-Congo	Aka (Biaka)	Central African Republic	20	5%	Batini et al. 2011
	Non-Bantoid	Niger-Congo	Baka	Cameroon	68	5%	Batini et al. 2011

Supplementary Table 3.2. Contemporary Distribution of the B2b-M112 Mutation.

Cultural Group	Language Group	Language Family	Population	Location	Sample Size	B2b-M112	Reference
Afro-Asiatic Farmers							
	Cushitic	Afro-Asiatic	Burunge	Tanzania	24	25%	Tishkoff et al. 2007
	Cushitic	Afro-Asiatic	Iraqw	Tanzania	9	11%	Wood et al. 2005
Bantu Farmers							
	Bantoid	Niger-Congo	Lissongo	Central African Republic	4	25%	Cruciani et al. 2002
	Bantoid	Niger-Congo	Tutsi	Rwanda	94	14%	Luis et al. 2004
	Bantoid	Niger-Congo	Kuvale	Angola	54	12%	Coelho et al. 2009
	Bantoid	Niger-Congo	Subiya	Zambia	11	9%	Barbieri et al. 2012
	Bantoid	Niger-Congo	Totela	Zambia	13	8%	Barbieri et al. 2013
	Bantoid	Niger-Congo	Herero	Namibia	29	7%	Bajik et al. 2018
	Bantoid	Niger-Congo	Sukuma	Tanzania	32	6%	Knight et al. 2003
	Bantoid	Niger-Congo	Turu	Tanzania	20	5%	Tishkoff et al. 2007
	Bantoid	Niger-Congo	Kota	Gabon	21	5%	Montano et al. 2011
	Bantoid	Niger-Congo	Kgalagadi	Botswana	21	5%	Bajik et al. 2018
	Bantoid	Niger-Congo	Nyaneka-Nkhumbi	Angola	153	4%	Coelho et al. 2009
	Bantoid	Niger-Congo	Tonga	Zambia	32	3%	Barbieri et al. 2013
	Bantoid	Niger-Congo	Zulu	South Africa	29	3%	Wood et al. 2005
	Bantoid	Niger-Congo	Duma	Gabon	46	2%	Berniell-Lee et al. 2009
	Bantoid	Niger-Congo	Kota	Gabon	53	2%	Berniell-Lee et al. 2009
	Bantoid	Niger-Congo	Shake	Gabon	43	2%	Berniell-Lee et al. 2009

Cultural Group	Language Group	Language Family	Population	Location	Sample Size	B2b-M112	Reference
	Bantoid	Niger-Congo	Shira (Eshira)	Gabon	42	2%	Berniell-Lee et al. 2009
	Bantoid	Niger-Congo	Hutu	Rwanda	69	1%	Luis et al. 2004
Hadza Hunter-Gatherers							
	Isolate-Hadza	Isolate-Hadza	Hadza (Hadzabe)	Tanzania	23	52%	Knight et al. 2003
	Isolate-Hadza	Isolate-Hadza	Hadza (Hadzabe)	Tanzania	57	51%	Tishkoff et al. 2007
	Isolate-Hadza	Isolate-Hadza	Hadza (Hadzabe)	Tanzania	10	50%	Henn et al. 2011
Khoisan Hunter-Gatherers							
	Khoisan	Kx'a	Ju 'hoan_North	Botswana	22	55%	Bajik et al. 2018
	Khoisan	Kx'a	Ju 'hoan	Lesotho	58	47%	Marks et al. 2015
	Khoisan	Khoe-Kwadi	Tshwa	Botswana	15	33%	Bajik et al. 2018
	Khoisan	Kx'a	Ju 'hoan_South	Botswana	30	23%	Bajik et al. 2018
	Khoisan	Tuu	Taa_East	Botswana	21	14%	Bajik et al. 2018
	Khoisan	Tuu	Taa_West	Botswana	31	13%	Bajik et al. 2018
	Khoisan	Khoe-Kwadi	G ui	Botswana	18	11%	Bajik et al. 2018
	Khoisan	Khoe-Kwadi	Naro	Botswana	21	10%	Bajik et al. 2018
	Khoisan	Khoe-Kwadi	!Kung	Namibia	32	9%	Wood et al. 2005
	Khoisan	Tuu	Taa_North	Botswana	23	9%	Bajik et al. 2018
	Khoisan	Khoe-Kwadi	!Kung	South Africa	64	8%	Cruciani et al. 2002
	Khoisan	Khoe-Kwadi	Hai om	Namibia	37	5%	Bajik et al. 2018
	Khoisan	Tuu	≠Khomani Bushmen	South Africa	19	5%	Henn et al. 2011
	Khoisan	Khoe-Kwadi	Shua	Botswana	24	4%	Bajik et al. 2018
	Khoisan	Khoe-Kwadi	Ani/Buga	Botswana	24	4%	Bajik et al. 2018

Cultural Group	Language Group	Language Family	Population	Location	Sample Size	B2b-M112	Reference
	Khoisan	Kx'a	!Xuun	Namibia	25	4%	Bajik et al. 2018
	Khoisan	Khoe-Kwadi	Nama	Namibia	28	4%	Bajik et al. 2018
	Khoisan	Khoe-Kwadi	Damara	Namibia	36	3%	Bajik et al. 2018
Mande Farmers							
	Mande	Niger-Congo	Bissa	Zambia	33	3%	Filippo et al. 2010
Nilo-Saharan Farmers							
	Nilo-Saharan	Nilo-Saharan	Maasai	Kenya	26	6%	Batini et al. 2011
	Nilo-Saharan	Nilo-Saharan	Ng'arkarimojong	Uganda	118	4%	Gomes et al. 2010
	Nilo-Saharan	Nilo-Saharan	Datooga	Tanzania	35	3%	Tishkoff et al. 2007
	Nilo-Saharan	Nilo-Saharan	Sara	Chad	61	2%	Haber et al. 2016
Pygmy Hunter-Gatherers							
	Non-Bantoid	Niger-Congo	Baka	Gabon	33	64%	Berniell-Lee et al. 2009
	N/A	N/A	Mbuti	Congo	22	64%	Batini et al. 2011
	Non-Bantoid	Niger-Congo	Baka	Cameroon	5	60%	Berniell-Lee et al. 2009
	N/A	N/A	Mbuti	Congo	47	43%	Wood et al. 2005
	Non-Bantoid	Niger-Congo	Baka	Cameroon	68	37%	Batini et al. 2011
	Bantoid	Niger-Congo	Aka (Biaka)	Central African Republic	20	30%	Cruciani et al. 2002
	N/A	N/A	Mbuti	Congo	12	25%	Cruciani et al. 2002
	Bantoid	Niger-Congo	Aka (Biaka)	Central African Republic	38	24%	Coia et al. 2004
	Bantoid	Niger-Congo	Aka (Biaka)	Central African Republic	20	19%	Batini et al. 2011
	Bantoid	Niger-Congo	Gyele (Bakola)	Cameroon	22	18%	Berniell-Lee et al. 2009

Cultural Group	Language Group	Language Family	Population	Location	Sample Size	B2b-M112	Reference
	Bantoid	Niger-Congo	Gyele (Bakola)	Cameroon	52	10%	Batini et al. 2011
Sandawe Hunter-Gatherers							
	Isolate-Sandawe	Isolate-Sandawe	Sandawe	Tanzania	17	29%	Henn et al. 2011
	Isolate-Sandawe	Isolate-Sandawe	Sandawe	Tanzania	68	13%	Tishkoff et al. 2007

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Supplementary Tables for Chapter Four and Haplogroup D-M174



Supplementary Table 4.1. Ancient Haplogroup D-M174 Mutations.

Master ID	Culture	Region	Country	Location	Death	Mutation	Reference
F5	Jomon	East Asia	Japan	Rebun Island, Hokkaido	3500	D1b-M55	Kanzawa-Kiriyama et al. 2019
Higashimyo-1	Jomon	East Asia	Japan	Kyushu Island	7500	D1b-M55	Adachi et al. 2021
Ma911	Hoabinhian	East Asia	Malaysia	West Peninsular Kelantan, Gua Cha Cave	4288	D-M174	McColl et al. 2018; Reich Dataset V42.4 (2020)

Supplementary Table 4.2. Contemporary Distribution of Haplogroup D-M174.

Region	Location	Population	Lang Family	Sample Size	D-M174	Reference
Central Asia						
	Kyrgyzstan	Dungans	Chinese	12	8.3%	Di Cristofaro et al. 2013
	Kazakhstan	Kazakh (Zhanakorgan)	Turkic	94	6.0%	Zhabagin et al. 2017
	Uzbekistan	Uzbek (Xorezm)	Turkic	98	2.0%	Zhabagin et al. 2017
	Kyrgyzstan	Sart-Kalmak	Mongolic	61	1.6%	Balinova et al. 2019
	Kazakhstan	Kazakh (Arys)	Turkic	119	1.0%	Zhabagin et al. 2017
East Asia						
	Japan	Ainu	Isolate	16	87.5%	Tajima et al. 2004
	Japan	Ainu	Isolate	4	75.0%	Hammer et al. 2006
	Southern China	Pumi	Tibeto-Burman	47	72.3%	Shi et al. 2008
	Qinghai, China	Tibetan (Qinghai)	Tibeto-Burman	40	67.5%	Zhong et al. 2011
	Xizang, China	Tibetan (Xizang)	Tibeto-Burman	191	61.8%	Zhong et al. 2011
	Xizang, China	Tibetan (Xizang)	Tibeto-Burman	31	58.1%	Zhong et al. 2011
	Tibet	Tibetans	Tibeto-Burman	2354	54.3%	Qi et al. 2013
	Guangxi, China	Laka	Tai-Kadai	23	52.2%	Gan et al. 2008
	Sichuan, China	Horpa (Danba)	Tibeto-Burman	18	50.0%	Wang et al. 2014
	Guangxi, China	Yao (Guangxi)	Hmong-Mien	21	47.6%	Zhong et al. 2011
	Northwest China	Yugur	Mongolic	32	43.8%	Shou et al. 2010
	Sichuan, China	Horpa (Daofu)	Tibeto-Burman	16	40.0%	Wang et al. 2014
	Sichuan, China	Qiang (Sichuan)	Tibeto-Burman	27	33.3%	Zhong et al. 2011
	Sichuan, China	Khams (Xinlong)	Tibeto-Burman	46	32.6%	Wang et al. 2014
	Southern China	Naxi	Tibeto-Burman	87	32.2%	Shi et al. 2008

Region	Location	Population	Lang Family	Sample Size	D-M174	Reference
	Japan	Japanese	Japonic	2390	32.1%	Sato et al. 2014
	Guangxi, China	Yao (Guangxi)	Hmong-Mien	10	30.0%	Zhong et al. 2011
	Southern China	Qiang	Tibeto-Burman	27	29.6%	Shi et al. 2008
	Yunnan, China	Miao (Yunnan)	Hmong-Mien	7	28.6%	Zhong et al. 2011
	North Thailand	Karen (Paduang)	Tibeto-Burman	11	27.3%	Kutanan et al. 2020
	Sichuan, China	Khams (Yajiang)	Tibeto-Burman	47	25.5%	Wang et al. 2014
	Tiandong, Guangxi, China	Pinghua	Chinese	20	25.0%	Lu et al. 2013
	Southern China	Yao	Hmong-Mien	20	25.0%	Shi et al. 2008
	North Thailand	Hmong (White Hmong)	Hmong-Mien	13	23.1%	Kutanan et al. 2020
	Southern China	Yao (Lowland)	Hmong-Mien	31	19.4%	Cai et al. 2011
	Hunan Province, Central China	Tǔhuà	Chinese	17	17.6%	Xia et al. 2019
	Vietnam	Lolo	Tibeto-Burman	36	17.0%	Macholdt et al. 2020
	Sichuan, China	Yi (Sichuan)	Tibeto-Burman	24	16.7%	Zhong et al. 2011
	Guizhou, China	Qau	Tai-Kadai	13	15.4%	Li et al. 2008b
	Northwest China	Bonan	Mongolic	27	14.8%	Shou et al. 2010
	Northern Thailand	Red Karen	Tibeto-Burman	22	14.0%	Kutanan et al. 2015
	Guizhou, China	Shui (Guizhou)	Tai-Kadai	29	13.8%	Zhong et al. 2011
	Guangxi, China	Mulam	Tai-Kadai	51	13.7%	Deng et al. 2013
	Guangxi, China	Mulam	Tai-Kadai	40	12.5%	Li et al. 2008b
	Gansu, China	Han (Gansu)	Chinese	16	12.5%	Zhong et al. 2011
	Gansu, China	Han (Gansu)	Chinese	49	12.2%	Zhong et al. 2011
	Southern China	Mien (Native)	Hmong-Mien	41	12.2%	Cai et al. 2011
	Vietnam	Hmong	Hmong-Mien	41	12.0%	Macholdt et al. 2020
	Guizhou, China	Buyi (Guizhou)	Tai-Kadai	34	11.8%	Zhong et al. 2011

Region	Location	Population	Lang Family	Sample Size	D-M174	Reference
	Southern China	Yao	Hmong-Mien	284	11.3%	Shi et al. 2008
	Yunnan, China	Han (Yunnan)	Chinese	18	11.1%	Zhong et al. 2011
	Guangxi, China	Zhuang	Tai-Kadai	63	11.1%	Zhao et al. 2010
	North Thailand	Khuen	Tai-Kadai	17	10.8%	Kutanan et al. 2020
	Guizhou, China	Miao (Guizhou)	Hmong-Mien	19	10.5%	Zhong et al. 2011
	Southern China	Chuang	Tai-Kadai	116	10.4%	Shi et al. 2008
	Guizhou, China	Han (Guizhou)	Chinese	10	10.0%	Zhong et al. 2011
	Gansu, China	Han (Gansu)	Chinese	20	10.0%	Zhong et al. 2011
	Yunnan Province, SW China	Jingpo	Tibeto-Burman	249	9.6%	Xu et al. 2019
	North Thailand	Hmong (Black Hmong)	Hmong-Mien	21	9.5%	Kutanan et al. 2020
	Guangxi, China	Chadong	Tai-Kadai	21	9.5%	Deng et al. 2013
	Guangxi, China	Mien Fu	Hmong-Mien	11	9.1%	Gan et al. 2008
	Shannxi, China	Han (Shannxi)	Chinese	56	8.9%	Zhong et al. 2011
	Guangxi, China	Zhuang	Tai-Kadai	21	8.9%	Gan et al. 2008
	Sichuan, China	Han (Sichuan)	Chinese	24	8.3%	Zhong et al. 2011
	Northern Thailand	Khuen	Tai-Kadai	24	8.3%	Brunelli et al. 2017
	China	Xinjiang Kalmyk	Mongolic	12	8.3%	Balinova et al. 2019
	Xingjiang, China	Uygur (Xingjiang)	Turkic	50	8.0%	Zhong et al. 2011
	Northwest China	Monguor (Tu)	Mongolic	50	8.0%	Shou et al. 2010
	Vietnam	Nung	Tai-Kadai	37	8.0%	Macholdt et al. 2020
	Southern China	Hmong (Daw)	Hmong-Mien	51	7.8%	Cai et al. 2011
	North Thailand	Khon Mueang	Tai-Kadai	13	7.7%	Kutanan et al. 2020
	Hunan Province, Central China	Wǎxiāng	Chinese	39	7.7%	Xia et al. 2019

Region	Location	Population	Lang Family	Sample Size	D-M174	Reference
	North Thailand	Lawa (Western)	Austro-Asiatic	15	7.2%	Kutanan et al. 2020
	Yunnan, China	Han (Yunnan)	Chinese	14	7.1%	Zhong et al. 2011
	Guizhou, China	Li (Guizhou)	Tai-Kadai	14	7.1%	Zhong et al. 2011
	Yunnan, China	Yi (Yunnan)	Tibeto-Burman	15	6.7%	Zhong et al. 2011
	Guizhou, China	Maonan (Guizhou)	Tai-Kadai	15	6.7%	Zhong et al. 2011
	Southern China	Mulam	Tai-Kadai	78	6.4%	Shi et al. 2008
	Southern China	Miao (Yunnan)	Hmong-Mien	49	6.1%	Cai et al. 2011
	Guangxi, China	Pinghua	Chinese	101	5.9%	Gan et al. 2008
	North Thailand	Khon Mueang	Tai-Kadai	17	5.9%	Kutanan et al. 2020
	Yunnan, China	Bai (Yunnan)	Tibeto-Burman	34	5.9%	Zhong et al. 2011
	Northeast Thailand	Laolsan	Tai-Kadai	18	5.7%	Kutanan et al. 2020
	Central Thailand	Central Thai	Tai-Kadai	18	5.6%	Kutanan et al. 2020
	Yunnan, China	Dai (Yunnan)	Tai-Kadai	18	5.6%	Zhong et al. 2011
	Xingjiang, China	Uygur (Xingjiang)	Turkic	18	5.6%	Zhong et al. 2011
	Southern China	Li	Tai-Kadai	55	5.5%	Shi et al. 2008
	North Thailand	Hmong (Black Hmong)	Hmong-Mien	19	5.3%	Kutanan et al. 2020
	Yunnan, China	Han (Yunnan)	Chinese	19	5.3%	Zhong et al. 2011
	Southern China	Shui	Tai-Kadai	95	5.3%	Shi et al. 2008
	Gansu, China	Han (Gansu)	Chinese	39	5.1%	Zhong et al. 2011
	Myanmar	Bamar	Tibeto-Burman	59	5.1%	Peng et al. 2014
	Laos	Laotian	Tai-Kadai	20	5.0%	Kutanan et al. 2020
	Laos	Laotian	Tai-Kadai	20	5.0%	Kutanan et al. 2020
	Shandong, China	Han (Shandong)	Chinese	40	5.0%	Zhong et al. 2011
	Guizhou, China	Buyi (Guizhou)	Tai-Kadai	21	4.8%	Zhong et al. 2011

Region	Location	Population	Lang Family	Sample Size	D-M174	Reference
	Southern China	Miao	Hmong-Mien	212	4.7%	Shi et al. 2008
	Guangxi, China	Zhuang	Tai-Kadai	129	4.7%	Chen et al. 2006
	Southern China	Dai	Tai-Kadai	176	4.5%	Shi et al. 2008
	Northern Thailand	Khon Muang 7	Tai-Kadai	23	4.4%	Brunelli et al. 2017
	North Thailand	Hmong (White Hmong)	Hmong-Mien	23	4.4%	Kutanan et al. 2020
	Hunan, China	Han (Hunan)	Chinese	23	4.3%	Zhong et al. 2011
	Shandong, China	Han (Shandong)	Chinese	23	4.3%	Zhong et al. 2011
	Northwest China	Uzbek	Turkic	23	4.3%	Shou et al. 2010
	Southern China	Mien (Western)	Hmong-Mien	47	4.3%	Cai et al. 2011
	Northern Thailand	Lue 1	Tai-Kadai	24	4.2%	Brunelli et al. 2017
	Northern Thailand	Yuan 3	Tai-Kadai	24	4.2%	Brunelli et al. 2017
	Fujian, China	Han (Fujian)	Chinese	24	4.2%	Zhong et al. 2011
	Hunan Province, Central China	Northern Tǔjiā	Tibeto-Burman	24	4.2%	Xia et al. 2019
	Hunan Province, Central China	Xiāng	Chinese	148	4.1%	Xia et al. 2019
	Vietnam	Ede	Austronesian	24	4.0%	Macholdt et al. 2020
	Northern Thailand	Lawa 1	Austro-Asiatic	25	4.0%	Brunelli et al. 2017
	Northwest China	Mongols	Mongolic	50	4.0%	Shou et al. 2010
	Northern Thailand	Yong	Tai-Kadai	26	3.9%	Brunelli et al. 2017
	Yunnan, China	Han (Yunnan)	Chinese	53	3.8%	Zhong et al. 2011
	Guangxi, China	Han (Guangxi)	Chinese	27	3.7%	Zhong et al. 2011
	Yunnan, China	Yi (Yunnan)	Tibeto-Burman	27	3.7%	Zhong et al. 2011
	Southern China	Yi	Tibeto-Burman	54	3.7%	Shi et al. 2008
	Southern China	Chuang	Tai-Kadai	28	3.5%	Shi et al. 2008

Region	Location	Population	Lang Family	Sample Size	D-M174	Reference
	Southern China	Dong	Tai-Kadai	147	3.4%	Shi et al. 2008
	Kizilsu Kirghiz Autonomous Prefecture, Northwest China	Kyrgyz	Turkic	241	3.3%	Guo et al. 2020
	Guangxi, China	Bolyu	Austro-Asiatic	30	3.3%	Li et al. 2008b
	Guizhou, China	Then	Tai-Kadai	30	3.3%	Li et al. 2008b
	Yunnan, China	Lachi	Tai-Kadai	30	3.3%	Li et al. 2008b
	Northeast Thailand	Nyaw	Tai-Kadai	18	3.3%	Kutanan et al. 2020
	Xingjiang, China	Xibe (Xinjiang)	Tungusic	61	3.3%	Zhong et al. 2011
	Ningxia, China	Hui (Ningxia)	Chinese	62	3.2%	Zhong et al. 2011
	Hunan Province, Central China	Hmong	Hmong-Mien	95	3.2%	Xia et al. 2019
	Yunnan, China	Buyang	Tai-Kadai	32	3.1%	Li et al. 2008b
	Guizhou, China	Tujia (Guizhou)	Tibeto-Burman	33	3.0%	Zhong et al. 2011
	Hunan Province, Central China	SW Mandarin	Chinese	99	3.0%	Xia et al. 2019
	Vietnam	Pathen	Hmong-Mien	36	3.0%	Macholdt et al. 2020
	Heilongjiang, China	Han (Heilongjiang)	Chinese	67	3.0%	Zhong et al. 2011
	Gansu, China	Han (Gansu)	Chinese	34	2.9%	Zhong et al. 2011
	Hunan Province, Central China	Gàn	Chinese	103	2.9%	Xia et al. 2019
	Hunan Province, Central China	Hakka	Chinese	113	2.7%	Xia et al. 2019
	Hunan, China	Han (Hunan)	Chinese	38	2.6%	Zhong et al. 2011
	Southern China	Tujia	Tibeto-Burman	116	2.6%	Shi et al. 2008
	Jiangsu, China	Han (Jiangsu)	Chinese	39	2.6%	Zhong et al. 2011

Region	Location	Population	Lang Family	Sample Size	D-M174	Reference
	Southern China	Bai	Tibeto-Burman	199	2.5%	Shi et al. 2008
	Liaoning, China	Han (Liaoning)	Chinese	40	2.5%	Zhong et al. 2011
	Korean	Koreans	Koreanic	706	2.5%	Park et al. 2012
	Southern China	Buyi	Tai-Kadai	123	2.4%	Shi et al. 2008
	Northwest China	Kazakh	Turkic	41	2.4%	Shou et al. 2010
	Liaoning, China	Manchu (Liaoning)	Tungusic	43	2.3%	Zhong et al. 2011
	Hunan, China	Dong (Hunan)	Tai-Kadai	45	2.2%	Zhong et al. 2011
	Henan, China	Han (Henan)	Chinese	45	2.2%	Zhong et al. 2011
	Southern China	Jingpo	Tibeto-Burman	50	2.0%	Shi et al. 2008
	Mongolia	Mongols	Mongolic	245	2.0%	Katoh et al. 2005
	Northwest China	Uyghurs	Turkic	50	2.0%	Shou et al. 2010
	Anhui, China	Han (Anhui)	Chinese	52	1.9%	Zhong et al. 2011
	Southern China	Nu	Tibeto-Burman	52	1.9%	Shi et al. 2008
	Mongolia	Mongols	Mongolic	160	1.9%	Di Cristofaro et al. 2013
	Xingjiang, China	Hazak (Xingjiang)	Turkic	53	1.9%	Zhong et al. 2011
	Hunan Province, Central China	Mandarin Tǔjiā	Tibeto-Burman	53	1.9%	Xia et al. 2019
	Guizhou, China	Buyi (Guizhou)	Tai-Kadai	54	1.9%	Zhong et al. 2011
	Zhejiang, China	Han (Zhejiang)	Chinese	55	1.8%	Zhong et al. 2011
	Guizhou, China	Han (Guizhou)	Chinese	58	1.7%	Zhong et al. 2011
	Yunnan, China	Hani (Yunnan)	Tibeto-Burman	60	1.7%	Zhong et al. 2011
	Guangxi, China	Zhuang (Guangxi)	Tai-Kadai	61	1.6%	Zhong et al. 2011
	Hunan Province, Central China	Kam	Tai-Kadai	71	1.4%	Xia et al. 2019
	Xingjiang, China	Uygur (Xingjiang)	Turkic	71	1.4%	Zhong et al. 2011

Region	Location	Population	Lang Family	Sample Size	D-M174	Reference
	Yunnan Province, SW China	Dai	Tai-Kadai	251	1.2%	Xu et al. 2019
	Southern China	Miao (Hunan)	Hmong-Mien	100	1.0%	Cai et al. 2011
	Guizhou, China	Han (Guizhou)	Chinese	107	0.9%	Zhong et al. 2011
	North Thailand	Lu Mien	Hmong-Mien	17	0.8%	Kutanan et al. 2020
Eastern Europe						
	Kalmyk Republic	Kalmyks	Mongolic	426	1.2%	Malyarchuk et al. 2013
Northern Eurasia						
	Altai Republic	Altai (Altaians, Altay)	Turkic	120	5.0%	Dulik et al. 2012
	Altai Republic, Russia	Altaians	Turkic	146	3.4%	Kharkov et al. 2007
South Asia						
	Andaman Islands	Öñge	Andamanese	23	100.0%	Thangaraj 2003a
	Andaman Islands	Jarawa	Andamanese	4	100.0%	Thangaraj 2003a
	West Bengal	Sherpa	Tibeto-Burman	54	42.7%	Tamang et al. 2018
	Jammu and Kashmir, India	Changpa	Tibeto-Burman	50	42.0%	Tamang et al. 2018
	Eastern India	Lachungpa	Tibeto-Burman	11	36.4%	Debnath et al. 2011
	Uttarakhand	Bhotia	Tibeto-Burman	55	32.7%	Tamang et al. 2018
	West Bengal	Subba	Tibeto-Burman	44	6.8%	Tamang et al. 2018
	Eastern India	Mech	Tibeto-Burman	19	5.3%	Debnath et al. 2011
	Chitwan, Nepal	Tharu	Indo-European	77	5.2%	Fornarino et al. 2009
	Chitwan, Nepal	Tharu	Indo-European	57	3.5%	Fornarino et al. 2009
	Bangladesh	Marma	Tibeto-Burman	60	2.0%	Gazi et al. 2013
	Nagaland	Ao Naga	Tibeto-Burman	67	1.5%	Tamang et al. 2018
	Bangladesh	Chakma	Indo-European	89	1.0%	Gazi et al. 2013

Region	Location	Population	Lang Family	Sample Size	D-M174	Reference
	Bangladesh	Tripuri	Tibeto-Burman	88	1.0%	Gazi et al. 2013

Supplementary Table 4.3. Contemporary Distribution of the D1a-F6251 Mutation.

Lang Family	Region	Population	Location	Sample Size	D1a-F6251	Reference
Austro-Asiatic						
	East Asia	Lawa 1	Northern Thailand	25	4.0%	Brunelli et al. 2017
Chinese						
	East Asia	Tǔhuà	Hunan Province, Central China	17	17.6%	Xia et al. 2019
	Central Asia	Dungans	Kyrgyzstan	12	8.3%	Di Cristofaro et al. 2013
	East Asia	Wǎxiāng	Hunan Province, Central China	39	7.7%	Xia et al. 2019
	East Asia	Pinghua	Guangxi, China	101	5.9%	Gan et al. 2008
	East Asia	Xiāng	Hunan Province, Central China	148	4.1%	Xia et al. 2019
	East Asia	SW Mandarin	Hunan Province, Central China	99	3.0%	Xia et al. 2019
	East Asia	Gàn	Hunan Province, Central China	103	2.9%	Xia et al. 2019
	East Asia	Hakka	Hunan Province, Central China	113	2.7%	Xia et al. 2019
Hmong-Mien						
	East Asia	Yao	Southern China	20	25.0%	Shi et al. 2008
	East Asia	Yao (Lowland)	Southern China	31	19.4%	Cai et al. 2011
	East Asia	Mien (Native)	Southern China	41	12.2%	Cai et al. 2011
	East Asia	Yao	Southern China	284	11.3%	Shi et al. 2008
	East Asia	Mien Fu	Guangxi, China	11	9.1%	Gan et al. 2008
	East Asia	Hmong (Daw)	Southern China	51	7.8%	Cai et al. 2011
	East Asia	Miao (Yunnan)	Southern China	49	6.1%	Cai et al. 2011
	East Asia	Miao	Southern China	212	4.7%	Shi et al. 2008
	East Asia	Mien (Western)	Southern China	47	4.3%	Cai et al. 2011
	East Asia	Hmong	Hunan Province, Central China	95	3.2%	Xia et al. 2019
	East Asia	Miao (Hunan)	Southern China	100	1.0%	Cai et al. 2011

Lang Family	Region	Population	Location	Sample Size	D1a-F6251	Reference
Indo-European						
	South Asia	Tharu	Chitwan, Nepal	57	3.5%	Fornarino et al. 2009
Mongolic						
	East Asia	Monguor (Tu)	Northwest China	50	2.0%	Shou et al. 2010
	East Asia	Mongols	Northwest China	50	2.0%	Shou et al. 2010
	East Asia	Mongols	Mongolia	160	1.9%	Di Cristofaro et al. 2013
Tai-Kadai						
	East Asia	Laka	Guangxi, China	23	52.2%	Gan et al. 2008
	East Asia	Mulam	Guangxi, China	40	12.5%	Li et al. 2008b
	East Asia	Zhuang	Guangxi, China	63	11.1%	Zhao et al. 2010
	East Asia	Zhuang	Guangxi, China	21	8.9%	Gan et al. 2008
	East Asia	Khuen	Northern Thailand	24	8.3%	Brunelli et al. 2017
	East Asia	Nung	Vietnam	37	8.0%	Macholdt et al. 2020
	East Asia	Chuang	Southern China	116	7.8%	Shi et al. 2008
	East Asia	Mulam	Southern China	78	6.4%	Shi et al. 2008
	East Asia	Li	Southern China	55	5.5%	Shi et al. 2008
	East Asia	Shui	Southern China	95	5.3%	Shi et al. 2008
	East Asia	Khon Muang 7	Northern Thailand	23	4.4%	Brunelli et al. 2017
	East Asia	Yuan 3	Northern Thailand	24	4.2%	Brunelli et al. 2017
	East Asia	Lue 1	Northern Thailand	24	4.2%	Brunelli et al. 2017
	East Asia	Yong	Northern Thailand	26	3.9%	Brunelli et al. 2017
	East Asia	Chuang	Southern China	28	3.5%	Shi et al. 2008
	East Asia	Dong	Southern China	147	3.4%	Shi et al. 2008
	East Asia	Lachi	Yunnan, China	30	3.3%	Li et al. 2008b
	East Asia	Zhuang	Guangxi, China	129	3.1%	Chen et al. 2006

Lang Family	Region	Population	Location	Sample Size	D1a-F6251	Reference
	East Asia	Dai	Southern China	176	2.8%	Shi et al. 2008
	East Asia	Buyi	Southern China	123	2.4%	Shi et al. 2008
	East Asia	Kam	Hunan Province, Central China	71	1.4%	Xia et al. 2019
Tibeto-Burman						
	East Asia	Pumi	Southern China	47	72.3%	Shi et al. 2008
	East Asia	Tibetans	Tibet	2354	54.3%	Qi et al. 2013
	East Asia	Horpa (Danba)	Sichuan, China	18	50.0%	Wang et al. 2014
	East Asia	Horpa (Daofu)	Sichuan, China	16	40.0%	Wang et al. 2014
	South Asia	Changpa	Jammu and Kashmir, India	50	40.0%	Tamang et al. 2018
	East Asia	Khams (Xinlong)	Sichuan, China	46	32.6%	Wang et al. 2014
	East Asia	Naxi	Southern China	87	32.2%	Shi et al. 2008
	South Asia	Bhotia	Uttarakhand	55	30.9%	Tamang et al. 2018
	South Asia	Sherpa	West Bengal	54	29.7%	Tamang et al. 2018
	East Asia	Qiang	Southern China	27	29.6%	Shi et al. 2008
	East Asia	Khams (Yajiang)	Sichuan, China	47	25.5%	Wang et al. 2014
	East Asia	Lolo	Vietnam	36	17.0%	Macholdt et al. 2020
	South Asia	Subba	West Bengal	44	6.8%	Tamang et al. 2018
	East Asia	Northern Tǔjiā	Hunan Province, Central China	24	4.2%	Xia et al. 2019
	East Asia	Yi	Southern China	54	3.7%	Shi et al. 2008
	East Asia	Tujia	Southern China	116	2.6%	Shi et al. 2008
	East Asia	Jingpo	Southern China	50	2.0%	Shi et al. 2008
	East Asia	Mandarin Tǔjiā	Hunan Province, Central China	53	1.9%	Xia et al. 2019
	South Asia	Ao Naga	Nagaland	67	1.5%	Tamang et al. 2018
	East Asia	Bai	Southern China	199	1.0%	Shi et al. 2008

Turkic

Lang Family	Region	Population	Location	Sample Size	D1a-F6251	Reference
	Northern Eurasia	Altai (Altaians, Altay)	Altai Republic	120	5.0%	Dulik et al. 2012
	East Asia	Kyrgyz	Kizilsu Kirghiz Autonomous Prefecture, Northwest China	241	3.3%	Guo et al. 2020

Supplementary Table 4.4. Contemporary Distribution of the D1b-M55 Mutation.

Lang Family	Region	Population	Location	Sample Size	D1b-M55	Reference
Isolate	East Asia	Ainu	Japan	16	88%	Tajima et al. 2004
Isolate	East Asia	Ainu	Japan	4	75%	Hammer et al. 2006
Japonic	East Asia	Japanese	Japan	2390	32%	Sato et al. 2014

Supplementary Table 4.5. Contemporary Distribution of the D1c-Y34638 Mutation.

Language Family	Region	Population	Location	Sample Size	D1c-Y34638	Reference
Andamanese	South Asia	Öñge	Andaman Islands	23	100%	Thangaraj 2003a
Andamanese	South Asia	Jarawa	Andaman Islands	4	100%	Thangaraj 2003a

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Supplementary Tables for Chapter Five and Haplogroup E-M96



Supplementary Table 5.1. Contemporary Distribution of the E1b-M34 Mutation.

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-M34	Reference
Eastern Europe							
	Slavic						
		Indo-European	Sephardic Bulgarians	Bulgaria	20	5.0%	Trombetta et al. 2015
		Indo-European	Bulgarians	Bulgaria	808	1.9%	Karachanak et al. 2013
Mediterranean							
	Greek						
		Indo-European	Continental Greeks	Greece	32	3.1%	Trombetta et al. 2015
	Italic						
		Indo-European	Sicilians	Italy	153	6.5%	Trombetta et al. 2015
		Indo-European	Central Italians	Italy	356	3.9%	Trombetta et al. 2015
		Indo-European	Sardinians	Italy	374	3.5%	Trombetta et al. 2015
		Indo-European	Southern Italians	Italy	141	2.8%	Trombetta et al. 2015
		Indo-European	Northern Italians	Italy	80	1.3%	Trombetta et al. 2015
Middle East							
	Iranian						
		Indo-European	Iranians	Iran	938	3.5%	Grugni et al. 2012
	Semitic						
		Afro-Asiatic	Dead Sea Jordanians	Jordan	45	31.1%	Flores et al. 2005
		Afro-Asiatic	Omanite	Oman	13	7.7%	Trombetta et al. 2015
		Afro-Asiatic	Bedouins	Israel	28	7.1%	Trombetta et al. 2015
		Afro-Asiatic	Jordanians	Jordan	101	5.0%	Flores et al. 2005
		Afro-Asiatic	Arabs	United Arab Emirate	41	4.9%	Trombetta et al. 2015

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-M34	Reference
		Afro-Asiatic	Druze Arabs	Israel	28	3.6%	Trombetta et al. 2015
		Afro-Asiatic	Palestinians	Israel	29	3.4%	Trombetta et al. 2015
	Turkic						
		Turkic	Erzurum Turkish	Turkey	25	8.0%	Trombetta et al. 2015
		Turkic	Sephardic Turkish	Turkey	19	5.3%	Trombetta et al. 2015
		Turkic	Southeastern Turkish	Turkey	24	4.2%	Trombetta et al. 2015
		Turkic	Central Anatolian	Turkey	61	3.3%	Trombetta et al. 2015
		Turkic	Istanbul Turkish	Turkey	35	2.9%	Trombetta et al. 2015
		Turkic	Southwestern Turkish	Turkey	40	2.5%	Trombetta et al. 2015
		Turkic	Turkish Cypriots	Turkey	46	2.2%	Trombetta et al. 2015
North Africa							
	Berber						
		Afro-Asiatic	Marrakech Berbers	Morocco	27	3.7%	Trombetta et al. 2015
		Afro-Asiatic	Mozabite Berbers	Algeria	67	1.5%	Trombetta et al. 2015
	Semitic						
		Afro-Asiatic	Libian Jews	Libya	23	17.4%	Trombetta et al. 2015
		Afro-Asiatic	Northern Egyptians	Egypt	49	10.2%	Trombetta et al. 2015
		Afro-Asiatic	Egyptian Berbers from Siwa	Egypt	93	2.2%	Trombetta et al. 2015
		Afro-Asiatic	Southern Egyptians	Egypt	47	2.1%	Trombetta et al. 2015
Sub-Saharan Africa							
	Cushitic						
		Afro-Asiatic	Ethiopian Jews	Ethiopia	22	13.6%	Trombetta et al. 2015
		Afro-Asiatic	Oromo	Ethiopia	62	4.8%	Trombetta et al. 2015

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-M34	Reference
		Afro-Asiatic	Afar	Djibouti	25	4.0%	Trombetta et al. 2015
	Nilo-Saharan	Afro-Asiatic	Saho	Eritrea	94	1.1%	Trombetta et al. 2015
		Nilo-Saharan	Cunama	Eritrea	20	5.0%	Trombetta et al. 2015
	Omotic	Afro-Asiatic	Wolayta	Ethiopia	12	8.3%	Trombetta et al. 2015
	Semitic	Afro-Asiatic	Amhara	Ethiopia	82	13.4%	Trombetta et al. 2015
		Afro-Asiatic	Yemenites	Yemen	94	7.4%	Trombetta et al. 2015
Western Europe	Italic	Indo-European	Corsicans	France	140	1.4%	Trombetta et al. 2015

Supplementary Table 5.2. Distributions of Ancient Haplogroup Hg E-M96 Mutations.

Region	Master ID	Culture 2	Country	Location	Death	Mutation	Reference
Caucasus							
	RISE423	Bronze Age	Armenia	Nerquin Getashen	3257	E1b-PF1961	Allentoft et al. 2015; Reich Dataset V42.4 (2020)
Central Asia							
	I8525	Copper Age	Turkmenistan	Geoksyur	4955	E1b-V68	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I2085	Bronze Age	Turkmenistan	Gonur	3899	E1b-M215	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	DA19	Scythian	Kazakhstan	Tian Shan, Central Steppe	2625	E1b-PF1961	Barros Damgaard et al. 2018a; Reich Dataset V42.4 (2020)
Eastern Europe							
	I3948	Neolithic	Croatia	Zemunica Cave	7860	E1b-L618	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	I1900	Neolithic	Hungary	Veszprém, Jutasi út	6691	E1b-L618	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	I3151	Neolithic	Ukraine	Verteba Cave	5750	E-M96	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	MJ-40	Scythian	Russia	Manhar-2, Burial 1	2303	E1b-M34	Jarve et al. 2019; Reich Dataset V42.4 (2020)
Mediterranean							
	I15940	Copper Age	Italy	Sardinia, Anghelu Ruju	4196	E1b-M35	Fernandes et al. 2020
Middle East							
	I0861	Paleolithic	Israel	Raqefet Cave	12750	E1b-PF1961	Lazaridis et al. 2016; Reich Dataset V42.4 (2020)

Region	Master ID	Culture 2	Country	Location	Death	Mutation	Reference
	I1072	Paleolithic	Israel	Raqefet Cave	12750	E1b-PF1961	Lazaridis et al. 2016; Reich Dataset V42.4 (2020)
	I1069	Paleolithic	Israel	Raqefet Cave	12750	E1b-P2	Lazaridis et al. 2016; Reich Dataset V42.4 (2020)
	I1414	Neolithic	Jordan	'Ain Ghazal	10050	E1b-PF1961	Lazaridis et al. 2016; Reich Dataset V42.4 (2020)
	I1415	Neolithic	Jordan	'Ain Ghazal	9875	E1b-M35	Lazaridis et al. 2016; Reich Dataset V42.4 (2020)
	I1710	Neolithic	Jordan	'Ain Ghazal	9580	E1b-M35	Lazaridis et al. 2016; Reich Dataset V42.4 (2020)
	I1171	Copper Age	Israel	Upper Galilee, Pki'in	5950	E1b-PF1961	Harney et al. 2018; Reich Dataset V42.4 (2020)
	ART015	Neolithic	Turkey	Arslantepe	4557	E1b-M123	Skourtanioti et al. 2020
North Africa							
	TAF010	African Foragers	Morocco	Taforalt	14605	E1b-M78	Loosdrecht et al. 2018; Reich Dataset V42.4 (2020)
	TAF013	African Foragers	Morocco	Taforalt	14500	E1b-M78	Loosdrecht et al. 2018; Reich Dataset V42.4 (2020)
	TAF014	African Foragers	Morocco	Taforalt	14500	E1b-M78	Loosdrecht et al. 2018; Reich Dataset V42.4 (2020)
	TAF011	African Foragers	Morocco	Taforalt	14500	E1b-M78	Loosdrecht et al. 2018; Reich Dataset V42.4 (2020)
	TAF009	African Foragers	Morocco	Taforalt	14357	E1b-M78	Loosdrecht et al. 2018; Reich Dataset V42.4 (2020)
	IAM.5	African Neolithic	Morocco	Ifri n'Amr or Moussa	7060	E1b-M81	Fregel et al. 2018; Reich Dataset V42.4 (2020)
	IAM.4	African Neolithic	Morocco	Ifri n'Amr or Moussa	7060	E1b-M81	Fregel et al. 2018; Reich Dataset V42.4 (2020)
	IAM.7	African Neolithic	Morocco	Ifri n'Amr or Moussa	6870	E1b-M215	Fregel et al. 2018; Reich Dataset V42.4 (2020)

Region	Master ID	Culture 2	Country	Location	Death	Mutation	Reference
Northern Eurasia							
	I7760	Bronze Age	Russia	Baikal Region, Angara river basin, Mouth of the Belaya River	5820	E1b-PF1961	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
South Asia							
	I6900	Iron Age	Pakistan	Swat Valley, Udegram	3213	E1b-PF1961	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I1799	Iron Age	Pakistan	Swat Valley, Udegram	3157	E1b-PF1961	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I1985	Iron Age	Pakistan	Swat Valley, Udegram	2958	E1b-PF1961	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I6194	Iron Age	Pakistan	Swat Valley, Udegram	2950	E1b-PF1961	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I6197	Iron Age	Pakistan	Swat Valley, Udegram	2950	E1b-PF1961	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I6899	Iron Age	Pakistan	Swat Valley, Udegram	2868	E1b-PF1961	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I3262	Iron Age	Pakistan	Swat Valley, Udegram	2854	E1b-PF1961	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I12472	Bronze Age	Pakistan	Katelai I	2850	E1b-PF1961	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
Sub-Saharan Africa							
	I5950	African Foragers	Ethiopia	Gamo Highlands, Mota Cave	4472	E1b-P2	Gallego Llorente et al. 2015; Reich Dataset V42.4 (2020)
	I8904	African Neolithic	Kenya	North Horr, Kokurmatakore	4200	E-M35	Prendergast et al. 2019; Reich Dataset V42.4 (2020)
	I12533	African Neolithic	Kenya	Prette John's Gully, GsJi 11	4007	E2-M75	Prendergast et al. 2019; Reich Dataset V42.4 (2020)
	LUK001	African Foragers	Kenya	Lukenya Hill	3500	E1b-M293	Wang et al. 2020

Region	Master ID	Culture 2	Country	Location	Death	Mutation	Reference
	I8874	African Neolithic	Kenya	Nakuru, Cole's Burial, GrJj 5a	3292	E1b-V32	Prendergast et al. 2019; Reich Dataset V42.4 (2020)
	I8809	African Neolithic	Kenya	Laikipia, Kisima Farm, KFR-A5/Porcupine Cave	2973	E1b-M293	Prendergast et al. 2019; Reich Dataset V42.4 (2020)
	I8759	African Neolithic	Kenya	Nakuru, Naishi Cave	2647	E1b-M293	Prendergast et al. 2019; Reich Dataset V42.4 (2020)
	I13980	African Neolithic	Tanzania	Gishimangeda Cave	2625	E1b-V22	Prendergast et al. 2019; Reich Dataset V42.4 (2020)
	I12398	African Neolithic	Kenya	Nakuru, Rigo Cave, GrJh3	2612	E1b-M293	Prendergast et al. 2019; Reich Dataset V42.4 (2020)
	I8923	African Neolithic	Kenya	Rigo Cave, GrJh3	2529	E-M35	Prendergast et al. 2019; Reich Dataset V42.4 (2020)
	I8920	African Neolithic	Kenya	Nakuru, Naivasha Burial Groud	2340	E1b-M293	Prendergast et al. 2019; Reich Dataset V42.4 (2020)
	HYR002	African Foragers	Kenya	Hyrax Hill	2300	E1b-M293	Wang et al. 2020
	I8918	African Neolithic	Kenya	Nakuru, Naivasha Burial Groud	2245	E1b-M293	Prendergast et al. 2019; Reich Dataset V42.4 (2020)
	I13762	African Neolithic	Tanzania	Gishimangeda Cave	2150	E1b-M293	Prendergast et al. 2019; Reich Dataset V42.4 (2020)
	I8922	African Neolithic	Kenya	Rigo Cave, GrJh3	2050	E1b-M293	Prendergast et al. 2019; Reich Dataset V42.4 (2020)
	I13977	African Neolithic	Tanzania	Gishimangeda Cave	1948	E1b-V1515	Prendergast et al. 2019; Reich Dataset V42.4 (2020)
	I8808	African Neolithic	Kenya	Victoria Nyanza, Kisumu, Jawuoyo Rockshelter	1849	E1b-V22	Prendergast et al. 2019; Reich Dataset V42.4 (2020)
	I12384	African Neolithic	Kenya	Nyandarua, Ol Kalou	1724	E1b-M293	Prendergast et al. 2019; Reich Dataset V42.4 (2020)
	I13972	African Neolithic	Tanzania	Gishimangeda Cave	1714	E-M35	Prendergast et al. 2019; Reich Dataset V42.4 (2020)

Region	Master ID	Culture 2	Country	Location	Death	Mutation	Reference
	MOL001	African Foragers	Kenya	Molo Cave	1500	E1b-M293	Wang et al. 2020
	XAR001	African Foragers	Botswana	Xaro	1400	E1b-V38	Wang et al. 2020
	XAR002	African Foragers	Botswana	Xaro	1400	E1b-M293	Wang et al. 2020
	TAU001	African Foragers	Botswana	Taukome	1100	E1b-M2	Wang et al. 2020
	I8802	African Neolithic	Kenya	Nakuru, Deloraine Farm, GqJh6	1087	E1b-M180	Prendergast et al. 2019; Reich Dataset V42.4 (2020)
Western Europe							
	BERG79	Neolithic	France	Bergheim	5956	E1b-M78	Brunel et al. 2020
	BERG157-9	Neolithic	France	Bergheim	5900	E1b-M78	Brunel et al. 2020
	BERG157-4	Neolithic	France	Bergheim	5900	E1b-M215	Brunel et al. 2020
	BERG157-3	Neolithic	France	Bergheim	5900	E1b-M78	Brunel et al. 2020
	I4246	Bronze Age	Spain	Madrid, San Fernando de Henares, Camino de las Yeseras	4202	E1b-M35	Olalde et al. 2019; Reich Dataset V42.4 (2020)

Supplementary Table 5.3. Contemporary Distribution of the E1b-M81 Mutation.

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-M81	Reference
Eastern Europe							
	Uralic						
		Uralic	Hungarians	Hungary	106	0.9%	Trombetta et al. 2015
Mediterranean							
	Italic						
		Indo-European	Southern Italians	Italy	141	1.4%	Trombetta et al. 2015
		Indo-European	Northern Italians	Italy	80	1.3%	Trombetta et al. 2015
		Indo-European	Central Italians	Italy	356	0.8%	Trombetta et al. 2015
		Indo-European	Sicilians	Italy	153	0.7%	Trombetta et al. 2015
		Indo-European	Sardinians	Italy	374	0.3%	Trombetta et al. 2015
Middle East							
	Semitic						
		Afro-Asiatic	Jordanians	Jordan	101	4.0%	Flores et al. 2005
		Afro-Asiatic	Bedouins	Israel	28	3.6%	Trombetta et al. 2015
	Turkic						
		Turkic	Turkish Cypriots	Turkey	46	8.7%	Trombetta et al. 2015
		Turkic	Istanbul Turkish	Turkey	35	5.7%	Trombetta et al. 2015
		Turkic	Sephardic Turkish	Turkey	19	5.3%	Trombetta et al. 2015
		Turkic	Southwestern Turkish	Turkey	40	2.5%	Trombetta et al. 2015
		Turkic	Northeastern Turkish	Turkey	41	2.4%	Trombetta et al. 2015
North Africa							
	Berber						

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-M81	Reference
		Afro-Asiatic	Mozabite Berbers	Algeria	67	86.6%	Trombetta et al. 2015
		Afro-Asiatic	Asni Berbers	Morocco	54	79.6%	Trombetta et al. 2015
		Afro-Asiatic	Marrakech Berbers	Morocco	27	77.8%	Trombetta et al. 2015
		Afro-Asiatic	Bouhria Berbers	Morocco	67	77.6%	Trombetta et al. 2015
		Afro-Asiatic	Souss Berbers	Morocco	34	76.5%	Trombetta et al. 2015
		Afro-Asiatic	Moyen Atlas Berbers	Morocco	69	71.0%	Trombetta et al. 2015
		Afro-Asiatic	Ouarzazate Berbers	Morocco	31	54.8%	Trombetta et al. 2015
	Semitic						
		Afro-Asiatic	Moroccan Arabs	Morocco	55	30.9%	Trombetta et al. 2015
		Afro-Asiatic	Libian Arabs	Libya	10	30.0%	Trombetta et al. 2015
		Afro-Asiatic	Tunisian Jews	Tunisia	10	10.0%	Trombetta et al. 2015
		Afro-Asiatic	Egyptians from Baharia	Egypt	41	4.9%	Trombetta et al. 2015
		Afro-Asiatic	Northern Egyptians	Egypt	49	4.1%	Trombetta et al. 2015
		Afro-Asiatic	Egyptian Berbers from Siwa	Egypt	93	1.1%	Trombetta et al. 2015
Sub-Saharan Africa							
	Berber						
		Afro-Asiatic	Tuareg	Niger	22	9.1%	Trombetta et al. 2015
	Semitic						
		Afro-Asiatic	Yemenites	Yemen	94	1.1%	Trombetta et al. 2015
Western Europe							
	Basque						
		Basque	Spanish Basques	Spain	55	3.6%	Trombetta et al. 2015
	Italic						

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-M81	Reference
		Indo-European	Pasangos from Cantabria	Spain	56	41.1%	Trombetta et al. 2015
		Indo-European	Southern Portuguese	Portugal	49	12.2%	Trombetta et al. 2015
		Indo-European	Northern Portuguese	Portugal	50	4.0%	Trombetta et al. 2015
		Indo-European	French	France	85	3.5%	Trombetta et al. 2015
		Indo-European	Asturians	Spain	90	2.2%	Trombetta et al. 2015
		Indo-European	Southern Spaniards	Spain	62	1.6%	Trombetta et al. 2015

Supplementary Table 5.4. Contemporary Distribution of the E1b-M293 Mutation.

Language Group	Language Family	Population	Location	Sample Size	E1b-M293	Reference
Bantoid						
	Niger-Congo	Tutsi	Burundi	9	22.2%	Trombetta et al. 2015
	Niger-Congo	Mbugwe	Tanzania	14	21.0%	Henn et al. 2008
	Niger-Congo	Kenyan Bantu	Kenya	11	18.0%	Henn et al. 2008
	Niger-Congo	Turu	Tanzania	22	14.0%	Henn et al. 2008
	Niger-Congo	South African Bantu	South Africa	8	13.0%	Henn et al. 2008
	Niger-Congo	Bantu	South Africa	8	12.5%	Trombetta et al. 2015
	Niger-Congo	Other Bantu	Kenya	17	11.8%	Trombetta et al. 2015
	Niger-Congo	Kikuyu	Kenya	9	11.1%	Trombetta et al. 2015
	Niger-Congo	Tswana	Botswana	18	5.6%	Bajik et al. 2018
	Niger-Congo	Kalanga	Botswana	19	5.3%	Bajik et al. 2018
	Niger-Congo	Kgalagadi	Botswana	21	4.8%	Bajik et al. 2018
	Niger-Congo	Luhya	Kenya	51	3.9%	Trombetta et al. 2015
	Niger-Congo	Sukuma	Tanzania	30	3.0%	Henn et al. 2008
Cushitic						
	Afro-Asiatic	Burunge	Tanzania	25	28.0%	Henn et al. 2008
	Afro-Asiatic	Oromo	Ethiopia	62	1.6%	Trombetta et al. 2015
Hazda						
	Isolate	Hazda	Tanzania	54	11.0%	Henn et al. 2008
Khoisan						
	Kx'a	ǀHoan	Botswana	13	38.5%	Bajik et al. 2018
	Khoe-Kwadi	ǁAni/Buga	Botswana	24	33.3%	Bajik et al. 2018
	Khoe-Kwadi	Khwe	South Africa	26	31.0%	Henn et al. 2008

Language Group	Language Family	Population	Location	Sample Size	E1b-M293	Reference
	Khoe-Kwadi	Khwe	Namibia	26	30.8%	Trombetta et al. 2015
	Tuu	Taa_North	Botswana	23	26.1%	Bajik et al. 2018
	Khoe-Kwadi	ǁXo	Botswana	20	25.0%	Bajik et al. 2018
	Kx'a	!Xuun	Namibia	25	24.0%	Bajik et al. 2018
	Kx'a	Ju 'hoan_South	Botswana	30	20.0%	Bajik et al. 2018
	Khoe-Kwadi	Tshwa	Botswana	15	20.0%	Bajik et al. 2018
	Khoe-Kwadi	Nama	Namibia	28	17.9%	Bajik et al. 2018
	Tuu	Taa_West	Botswana	31	12.9%	Bajik et al. 2018
	Khoe-Kwadi	!Kung	South Africa	64	11.0%	Henn et al. 2008
	Khoe-Kwadi	Naro	Botswana	21	9.5%	Bajik et al. 2018
	Tuu	Taa_East	Botswana	21	9.5%	Bajik et al. 2018
	Khoe-Kwadi	!Kung	Angola	64	9.4%	Trombetta et al. 2015
	Khoe-Kwadi	G ui	Botswana	18	5.6%	Bajik et al. 2018
	Khoe-Kwadi	Gǁana	Botswana	19	5.3%	Bajik et al. 2018
	Khoe-Kwadi	Shua	Botswana	24	4.2%	Bajik et al. 2018
	Khoe-Kwadi	Haiǁom	Namibia	37	2.7%	Bajik et al. 2018
Nilo-Saharan						
	Nilo-Saharan	Datooga	Tanzania	40	43.0%	Henn et al. 2008
	Nilo-Saharan	Maasai	Kenya	45	24.4%	Trombetta et al. 2015
	Nilo-Saharan	Nilotic Western Kenya	Kenya	11	18.2%	Trombetta et al. 2015
	Nilo-Saharan	Turkana	Kenya	6	16.7%	Trombetta et al. 2015
Omotiic						
	Afro-Asiatic	Wolayta	Ethiopia	12	8.3%	Trombetta et al. 2015
Sandawe						

Language Group	Language Family	Population	Location	Sample Size	E1b-M293	Reference
	Isolate	Sandawe	Tanzania	70	24.0%	Henn et al. 2008

Supplementary Table 5.5. Contemporary Distribution of the E1b-V13 Mutation.

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-V13	Reference
Baltic							
	Uralic						
		Uralic	Estonians	Estonia	74	4.1%	Trombetta et al. 2015
		Uralic	Estonians	Estonia	74	4.1%	D'Atanasio et al. 2018
Eastern Europe							
	Italic						
		Indo-European	Rumanians	Romania	30	26.7%	Trombetta et al. 2015
		Indo-European	Rumanians	Romania	30	26.7%	D'Atanasio et al. 2018
	Slavic						
		Indo-European	Bulgarians	Bulgaria	112	21.4%	Trombetta et al. 2015
		Indo-European	Bulgarians	Bulgaria	129	20.9%	D'Atanasio et al. 2018
		Indo-European	Macedonians	Macedonia	99	18.2%	Trombetta et al. 2015
		Indo-European	Bulgarians	Bulgaria	808	18.1%	Karachanak et al. 2013
		Indo-European	Macedonians	Macedonia	99	17.2%	D'Atanasio et al. 2018
		Indo-European	Slovenians	Slovenia	104	2.9%	Trombetta et al. 2015
		Indo-European	Slovenians	Slovenia	104	2.9%	D'Atanasio et al. 2018
		Indo-European	Polish	Poland	40	2.5%	Trombetta et al. 2015
		Indo-European	Polish	Poland	40	2.5%	D'Atanasio et al. 2018
	Uralic						
		Uralic	Hungarians	Hungary	106	9.4%	Trombetta et al. 2015
		Uralic	Hungarians	Hungary	106	9.4%	D'Atanasio et al. 2018
Mediterranean							
	Albanian						

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-V13	Reference
		Indo-European	Albanians	Albania	68	33.8%	D'Atanasio et al. 2018
		Indo-European	Albanians	Albania	21	33.3%	Trombetta et al. 2015
	Greek						
		Indo-European	Continental Greeks	Greece	32	25.0%	Trombetta et al. 2015
		Indo-European	Greeks	Greece	433	11.3%	D'Atanasio et al. 2018
	Italic						
		Indo-European	Southern Italians	Italy	141	8.5%	D'Atanasio et al. 2018
		Indo-European	Southern Italians	Italy	141	8.5%	Trombetta et al. 2015
		Indo-European	Sicilians	Italy	152	7.2%	D'Atanasio et al. 2018
		Indo-European	Sicilians	Italy	153	7.2%	Trombetta et al. 2015
		Indo-European	Northern Italians ^b	Italy	80	6.3%	D'Atanasio et al. 2018
		Indo-European	Northern Italians	Italy	80	6.3%	Trombetta et al. 2015
		Indo-European	Italians	Italy	348	5.5%	D'Atanasio et al. 2018
		Indo-European	Central Italians	Italy	356	5.3%	Trombetta et al. 2015
		Indo-European	Sardinians	Italy	374	1.1%	Trombetta et al. 2015
		Indo-European	Sardinians	Italy	375	1.1%	D'Atanasio et al. 2018
Middle East							
	Semitic						
		Afro-Asiatic	Druze Arabs	Israel	28	10.7%	Trombetta et al. 2015
		Afro-Asiatic	Druze Arabs ^c	Israel	28	10.7%	D'Atanasio et al. 2018
		Afro-Asiatic	Palestinians	Israel	29	3.4%	Trombetta et al. 2015
		Afro-Asiatic	Palestinians ^c	Israel	29	3.4%	D'Atanasio et al. 2018
	Turkic						
		Turkic	Turkish Cypriots	Turkey	46	10.9%	D'Atanasio et al. 2018
		Turkic	Turkish Cypriots	Turkey	46	10.9%	Trombetta et al. 2015

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-V13	Reference
		Turkic	Central Anatolian	Turkey	61	4.9%	D'Atanasio et al. 2018
		Turkic	Central Anatolian	Turkey	61	4.9%	Trombetta et al. 2015
		Turkic	Southeastern Turkish	Turkey	24	4.2%	D'Atanasio et al. 2018
		Turkic	Southeastern Turkish	Turkey	24	4.2%	Trombetta et al. 2015
		Turkic	Istanbul Turkish	Turkey	35	2.9%	D'Atanasio et al. 2018
		Turkic	Istanbul Turkish	Turkey	35	2.9%	Trombetta et al. 2015
		Turkic	Southwestern Turkish	Turkey	40	2.5%	Trombetta et al. 2015
		Turkic	Southwestern Turkish	Turkey	40	2.5%	D'Atanasio et al. 2018
North Africa							
	Berber						
		Afro-Asiatic	Bouhria Berbers	Morocco	67	1.5%	D'Atanasio et al. 2018
		Afro-Asiatic	Bouhria Berbers	Morocco	67	1.5%	Trombetta et al. 2015
	Semitic						
		Afro-Asiatic	Libian Jews	Libya	22	4.5%	D'Atanasio et al. 2018
		Afro-Asiatic	Libian Jews	Libya	23	4.3%	Trombetta et al. 2015
		Afro-Asiatic	Moroccan Jews	Morocco	33	3.0%	D'Atanasio et al. 2018
		Afro-Asiatic	Egyptians from Baharia	Egypt	41	2.4%	Trombetta et al. 2015
		Afro-Asiatic	Egyptians from Baharia	Egypt	41	2.4%	D'Atanasio et al. 2018
		Afro-Asiatic	Northern Egyptians	Egypt	49	2.0%	Trombetta et al. 2015
		Afro-Asiatic	Northern Egyptians	Egypt	52	1.9%	D'Atanasio et al. 2018
Scandinavia							
	Germanic						
		Indo-European	Danish	Denmark	35	2.9%	Trombetta et al. 2015
		Indo-European	Danish	Denmark	35	2.9%	D'Atanasio et al. 2018

Western Europe

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-V13	Reference
	Germanic						
		Indo-European	Germans	Germany	77	3.9%	Trombetta et al. 2015
		Indo-European	Germans	Germany	77	3.9%	D'Atanasio et al. 2018
	Italic						
		Indo-European	Asturians	Spain	90	5.6%	Trombetta et al. 2015
		Indo-European	Corsicans	France	140	4.3%	D'Atanasio et al. 2018
		Indo-European	Corsicans	France	140	4.3%	Trombetta et al. 2015
		Indo-European	Southern Portuguese	Portugal	49	4.1%	Trombetta et al. 2015
		Indo-European	Portuguese	Portugal	99	4.0%	D'Atanasio et al. 2018
		Indo-European	Northern Portuguese	Portugal	50	4.0%	Trombetta et al. 2015
		Indo-European	French	France	85	3.5%	Trombetta et al. 2015
		Indo-European	French	France	101	3.0%	D'Atanasio et al. 2018
		Indo-European	Spaniards	Spain	263	1.9%	D'Atanasio et al. 2018

Supplementary Table 5.6. Contemporary Distribution of the E1b-V22 Mutation.

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-V22	Reference
Eastern Europe							
	Slavic						
		Indo-European	Macedonians	Macedonia	99	1.0%	D'Atanasio et al. 2018
Mediterranean							
	Italic						
		Indo-European	Sicilians	Italy	152	4.6%	D'Atanasio et al. 2018
		Indo-European	Sicilians	Italy	153	4.6%	Trombetta et al. 2015
		Indo-European	Northern Italians	Italy	80	2.5%	Trombetta et al. 2015
		Indo-European	Northern Italians	Italy	80	2.5%	D'Atanasio et al. 2018
		Indo-European	Central Italians	Italy	356	2.0%	Trombetta et al. 2015
		Indo-European	Italians	Italy	348	1.7%	D'Atanasio et al. 2018
		Indo-European	Southern Italians	Italy	141	1.4%	D'Atanasio et al. 2018
		Indo-European	Southern Italians	Italy	141	1.4%	Trombetta et al. 2015
		Indo-European	Sardinians	Italy	374	0.8%	Trombetta et al. 2015
		Indo-European	Sardinians	Italy	375	0.8%	D'Atanasio et al. 2018
Middle East							
	Semitic						
		Afro-Asiatic	Omanite	Oman	13	7.7%	Trombetta et al. 2015
		Afro-Asiatic	Palestiniansc	Israel	29	6.9%	D'Atanasio et al. 2018
		Afro-Asiatic	Palestinians	Israel	29	6.9%	Trombetta et al. 2015
		Afro-Asiatic	Jordanians	Jordan	72	5.6%	D'Atanasio et al. 2018
		Afro-Asiatic	Bedouins	Israel	28	3.6%	Trombetta et al. 2015
		Afro-Asiatic	Bedouin sc	Israel	28	3.6%	D'Atanasio et al. 2018

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-V22	Reference
		Afro-Asiatic	Arabs	United Arab Emirate	41	2.4%	Trombetta et al. 2015
	Turkic						
		Turkic	Istanbul Turkish	Turkey	35	5.7%	D'Atanasio et al. 2018
		Turkic	Istanbul Turkish	Turkey	35	5.7%	Trombetta et al. 2015
		Turkic	Turkish Cypriots	Turkey	46	2.2%	Trombetta et al. 2015
		Turkic	Turkish Cypriots	Turkey	46	2.2%	D'Atanasio et al. 2018
North Africa							
	Berber						
		Afro-Asiatic	Asni Berbers	Morocco	54	3.7%	D'Atanasio et al. 2018
		Afro-Asiatic	Marrakech Berbers	Morocco	27	3.7%	D'Atanasio et al. 2018
		Afro-Asiatic	Asni Berbers	Morocco	54	3.7%	Trombetta et al. 2015
		Afro-Asiatic	Marrakech Berbers	Morocco	27	3.7%	Trombetta et al. 2015
	Nilo-Saharan						
		Nilo-Saharan	Fur	Sudan	32	18.8%	Hassan et al. 2008
		Nilo-Saharan	Masalit	Sudan	32	15.6%	Hassan et al. 2008
		Nilo-Saharan	Shilluk	Sudan	15	13.3%	Hassan et al. 2008
		Nilo-Saharan	Dinka	Sudan	26	11.5%	Hassan et al. 2008
	Non-Bantoid						
		Niger-Congo	Fula (Fulbe, Fulani)	Sudan	26	30.8%	Hassan et al. 2008
	Semitic						
		Afro-Asiatic	Egyptians from Baharia	Egypt	41	22.0%	Trombetta et al. 2015
		Afro-Asiatic	Egyptians from Baharia	Egypt	41	22.0%	D'Atanasio et al. 2018
		Afro-Asiatic	Northern Egyptians	Egypt	49	16.3%	Trombetta et al. 2015

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-V22	Reference
Sub-Saharan Africa		Afro-Asiatic	Northern Egyptians	Egypt	52	15.4%	D'Atanasio et al. 2018
		Afro-Asiatic	Moroccan Jews	Morocco	33	12.1%	D'Atanasio et al. 2018
		Afro-Asiatic	Moroccan Arabs	Morocco	55	7.3%	D'Atanasio et al. 2018
		Afro-Asiatic	Moroccan Arabs	Morocco	55	7.3%	Trombetta et al. 2015
	Cushitic	Afro-Asiatic	Saho	Eritrea	92	90.2%	D'Atanasio et al. 2018
		Afro-Asiatic	Saho	Eritrea	94	88.3%	Trombetta et al. 2015
	Nilo-Saharan	Afro-Asiatic	Somali	Ethiopia	12	8.3%	D'Atanasio et al. 2018
		Afro-Asiatic	Somali	Ethiopia	12	8.3%	Trombetta et al. 2015
	Nilo-Saharan	Nilo-Saharan	Turkana	Kenya	6	33.3%	D'Atanasio et al. 2018
		Nilo-Saharan	Turkana	Kenya	6	33.3%	Trombetta et al. 2015
		Nilo-Saharan	Nilotic from Western Kenya	Kenya	10	10.0%	D'Atanasio et al. 2018
		Nilo-Saharan	Nilotic Western Kenya	Kenya	11	9.1%	Trombetta et al. 2015
		Nilo-Saharan	Maasai	Kenya	44	6.8%	D'Atanasio et al. 2018
		Nilo-Saharan	Nara	Eritrea	15	6.7%	D'Atanasio et al. 2018
Nilo-Saharan		Maasai	Kenya	45	6.7%	Trombetta et al. 2015	
Nilo-Saharan		Nara	Eritrea	15	6.7%	Trombetta et al. 2015	
Nilo-Saharan		Cunama	Eritrea	20	5.0%	D'Atanasio et al. 2018	
Nilo-Saharan		Cunama	Eritrea	20	5.0%	Trombetta et al. 2015	
Omotic	Afro-Asiatic	Wolayta	Ethiopia	12	8.3%	D'Atanasio et al. 2018	
	Afro-Asiatic	Wolayta	Ethiopia	12	8.3%	Trombetta et al. 2015	

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-V22	Reference
Semitic							
		Afro-Asiatic	Gurage	Ethiopia	7	28.6%	D'Atanasio et al. 2018
		Afro-Asiatic	Gurage	Ethiopia	7	28.6%	Trombetta et al. 2015
		Afro-Asiatic	Tigrai	Eritrea/Ethiopia	32	3.1%	Trombetta et al. 2015
		Afro-Asiatic	Tigrai	Eritrea/Ethiopia	32	3.1%	D'Atanasio et al. 2018
		Afro-Asiatic	Amhara	Ethiopia	81	2.5%	D'Atanasio et al. 2018
		Afro-Asiatic	Amhara	Ethiopia	82	2.4%	Trombetta et al. 2015
Western Europe							
Italic							
		Indo-European	Asturians	Spain	90	4.4%	Trombetta et al. 2015
		Indo-European	Southern Spaniards	Spain	62	3.2%	Trombetta et al. 2015
		Indo-European	Spaniards	Spain	263	2.3%	D'Atanasio et al. 2018

Supplementary Table 5.7. Contemporary Distribution of the E1b-V32 Mutation.

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-V32	Reference
North Africa							
	Chadic						
		Afro-Asiatic	Hausa	Sudan	32	3.1%	Hassan et al. 2008
	Cushitic						
		Afro-Asiatic	Beja	Sudan	42	31.0%	Hassan et al. 2008
	Nilo-Saharan						
		Nilo-Saharan	Masalit	Sudan	32	53.1%	Hassan et al. 2008
		Nilo-Saharan	Fur	Sudan	32	40.6%	Hassan et al. 2008
		Nilo-Saharan	Nubians	Sudan	39	2.6%	Hassan et al. 2008
	Non-Bantoid						
		Niger-Congo	Fula (Fulbe, Fulani)	Sudan	26	3.8%	Hassan et al. 2008
	Semitic						
		Afro-Asiatic	Egyptians from Gurna Oasis	Egypt	34	2.9%	D'Atanasio et al. 2018
		Afro-Asiatic	Egyptians from Gurna Oasis	Egypt	34	2.9%	Trombetta et al. 2015
		Afro-Asiatic	Northern Egyptians	Egypt	49	2.0%	Trombetta et al. 2015
		Afro-Asiatic	Northern Egyptians	Egypt	52	1.9%	D'Atanasio et al. 2018
Sub-Saharan Africa							
	Bantoid						
		Niger-Congo	Luhya	Kenya	51	5.9%	Trombetta et al. 2015
		Niger-Congo	Luhya	Kenya	51	5.9%	D'Atanasio et al. 2018
	Chadic						
		Afro-Asiatic	Massa	Chad	11	9.1%	D'Atanasio et al. 2018

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-V32	Reference
	Cushitic						
		Afro-Asiatic	Somali	Somalia	5	80.0%	Trombetta et al. 2015
		Afro-Asiatic	Somali	Somalia	4	75.0%	D'Atanasio et al. 2018
		Afro-Asiatic	Borana	Kenya	9	66.7%	Trombetta et al. 2015
		Afro-Asiatic	Somali	Kenya	6	66.7%	Trombetta et al. 2015
		Afro-Asiatic	Somali	Kenya	6	66.7%	D'Atanasio et al. 2018
		Afro-Asiatic	Borana	Kenya	8	62.5%	D'Atanasio et al. 2018
		Afro-Asiatic	Somali	Djibouti	39	25.6%	D'Atanasio et al. 2018
		Afro-Asiatic	Somali	Ethiopia	12	25.0%	Trombetta et al. 2015
		Afro-Asiatic	Somali	Djibouti	40	25.0%	Trombetta et al. 2015
		Afro-Asiatic	Somali	Ethiopia	12	25.0%	D'Atanasio et al. 2018
		Afro-Asiatic	Oromo	Ethiopia	62	22.6%	D'Atanasio et al. 2018
		Afro-Asiatic	Oromo	Ethiopia	62	22.6%	Trombetta et al. 2015
		Afro-Asiatic	Ethiopian Jews	Ethiopia	22	9.1%	Trombetta et al. 2015
		Afro-Asiatic	Ethiopian Jews	Ethiopia	22	9.1%	D'Atanasio et al. 2018
	Nilo-Saharan						
		Nilo-Saharan	Goulaye	Chad	7	57.1%	D'Atanasio et al. 2018
		Nilo-Saharan	Cunama	Eritrea	20	20.0%	D'Atanasio et al. 2018
		Nilo-Saharan	Cunama	Eritrea	20	20.0%	Trombetta et al. 2015
		Nilo-Saharan	Nara	Eritrea	15	13.3%	D'Atanasio et al. 2018
		Nilo-Saharan	Nara	Eritrea	15	13.3%	Trombetta et al. 2015
		Nilo-Saharan	Sara	Chad	12	8.3%	D'Atanasio et al. 2018
		Nilo-Saharan	Maasai	Kenya	44	6.8%	D'Atanasio et al. 2018
		Nilo-Saharan	Madjingay	Chad	15	6.7%	D'Atanasio et al. 2018
		Nilo-Saharan	Maasai	Kenya	45	6.7%	Trombetta et al. 2015

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-V32	Reference
	Non-Bantoid						
		Niger-Congo	Moundang	Cameroon (North)	21	4.8%	Trombetta et al. 2015
		Niger-Congo	Moundang	Cameroon (North)	21	4.8%	D'Atanasio et al. 2018
	Omotic						
		Afro-Asiatic	Wolayta	Ethiopia	12	8.3%	D'Atanasio et al. 2018
		Afro-Asiatic	Wolayta	Ethiopia	12	8.3%	Trombetta et al. 2015
	Semitic						
		Afro-Asiatic	Tigre	Eritrea	5	60.0%	Trombetta et al. 2015
		Afro-Asiatic	Tigre	Eritrea	5	60.0%	D'Atanasio et al. 2018
		Afro-Asiatic	Tigrai	Eritrea/Ethiopia	32	21.9%	Trombetta et al. 2015
		Afro-Asiatic	Tigrai	Eritrea/Ethiopia	32	21.9%	D'Atanasio et al. 2018
		Afro-Asiatic	Amhara	Ethiopia	81	11.1%	D'Atanasio et al. 2018
		Afro-Asiatic	Amhara	Ethiopia	82	11.0%	Trombetta et al. 2015
		Afro-Asiatic	Yemenites	Yemen	94	3.2%	Trombetta et al. 2015
		Afro-Asiatic	Yemenites	Yemen	94	3.2%	D'Atanasio et al. 2018

Supplementary Table 5.8. Contemporary Distribution of the E1a-M33 Mutation.

Region	Language Group	Language Family	Population	Location	Sample Size	E1a-M33	Reference
North Africa							
	Chadic						
		Afro-Asiatic	Hausa	Sudan	32	15.6%	Hassan et al. 2008
	Non-Bantoid						
		Niger-Congo	Fula (Fulbe, Fulani)	Sudan	26	11.5%	Hassan et al. 2008
Sub-Saharan Africa							
	Bantoid						
		Niger-Congo	Balanta	Guinea-Bissau	26	11.5%	Rosa et al. 2007
	Chadic						
		Afro-Asiatic	Kotoko	Cameroon	15	40.0%	Bučková et al 2013
		Afro-Asiatic	Masa	Cameroon	16	31.3%	Bučková et al 2013
	Mande						
		Niger-Congo	Marka	Burkina Faso	33	18.0%	Barbieri et al. 2012
		Niger-Congo	Burkina Faso Mande	Burkina Faso	152	14.4%	Filippo et al. 2011
		Niger-Congo	Mandenka	Senegal	15	13.3%	Barbieri et al. 2012
		Niger-Congo	Bisa	Burkina Faso	40	3.0%	Barbieri et al. 2012
	Nilo-Saharan						
		Nilo-Saharan	Songhai	Mali	23	30.4%	Bučková et al 2013
		Nilo-Saharan	Kanuri	Nigeria	28	25.0%	Bučková et al 2013
		Nilo-Saharan	Kanembu	Chad	11	18.2%	Bučková et al 2013
	Non-Bantoid						
		Niger-Congo	Fula Linia	Chad	11	45.5%	Bučková et al 2013

Region	Language Group	Language Family	Population	Location	Sample Size	E1a-M33	Reference
		Niger-Congo	South Samo	Burkina Faso	41	29.0%	Barbieri et al. 2012
		Niger-Congo	Fula Tcheboua	Cameroon	22	22.7%	Bučková et al 2013
		Niger-Congo	Papel	Guinea-Bissau	64	20.3%	Rosa et al. 2007
		Niger-Congo	Fula Tindangou	Burkina Faso	12	16.7%	Bučková et al 2013
		Niger-Congo	Fula Banfora	Burkina Faso	26	15.4%	Bučková et al 2013
		Niger-Congo	Fula Zinder	Niger	16	12.5%	Bučková et al 2013
		Niger-Congo	Nalu	Guinea-Bissau	17	11.8%	Rosa et al. 2007
		Niger-Congo	Fula Diafarabe	Mali	23	8.7%	Bučková et al 2013
		Niger-Congo	Fula Bongor	Chad	25	8.0%	Bučková et al 2013
		Niger-Congo	North Samo	Burkina Faso	38	8.0%	Barbieri et al. 2012
		Niger-Congo	Fula Diffa	Niger	13	7.7%	Bučková et al 2013
		Niger-Congo	Fula Balatungur	Niger	13	7.7%	Bučková et al 2013
		Niger-Congo	Lyela	Burkina Faso	40	7.5%	Barbieri et al. 2012
		Niger-Congo	Fula (Fulbe, Fulani)	Guinea-Bissau	59	6.8%	Rosa et al. 2007
		Niger-Congo	Mossi	Burkina Faso	36	6.0%	Barbieri et al. 2012
		Niger-Congo	Bidyogo (Bijago)	Guinea-Bissau	21	4.8%	Rosa et al. 2007
		Niger-Congo	Fula Abala	Niger	21	4.8%	Bučková et al 2013
		Niger-Congo	Burkina Faso Gur	Burkina Faso	183	2.7%	Filippo et al. 2011

Supplementary Table 5.9. Contemporary Distribution of the E1b-U174 Mutation.

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-U174	Reference
Middle East							
	Turkic						
		Turkic	Turkish Cypriots	Turkey	46	2.2%	D'Atanasio et al. 2018
North Africa							
	Berber						
		Afro-Asiatic	Ouarzazate Berbers	Morocco	31	3.2%	D'Atanasio et al. 2018
	Semitic						
		Afro-Asiatic	Egyptian Berbers from Siwa	Egypt	93	1.1%	D'Atanasio et al. 2018
Sub-Saharan Africa							
	Bantoid						
		Niger-Congo	Luhya	Kenya	51	60.8%	D'Atanasio et al. 2018
		Niger-Congo	Bantu from Kampala	Uganda	13	53.8%	D'Atanasio et al. 2018
		Niger-Congo	Bamileke	Cameroon (South)	52	51.9%	D'Atanasio et al. 2018
		Niger-Congo	Biaka Pygmies	Central African Republic	33	45.5%	D'Atanasio et al. 2018
		Niger-Congo	Kikuyu	Kenya	9	44.4%	D'Atanasio et al. 2018
		Niger-Congo	Tutsi	Burundi	9	44.4%	D'Atanasio et al. 2018
		Niger-Congo	Hutu	Burundi	14	35.7%	D'Atanasio et al. 2018

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-U174	Reference
		Niger-Congo	Ewondo	Cameroon (South)	31	25.8%	D'Atanasio et al. 2018
		Niger-Congo	Bakaka	Cameroon (South)	12	16.7%	D'Atanasio et al. 2018
		Niger-Congo	Twa Pygmies	Burundi	7	14.3%	D'Atanasio et al. 2018
		Niger-Congo	Bantu	South Africa	8	12.5%	D'Atanasio et al. 2018
	Berber						
		Afro-Asiatic	Tuareg	Niger	22	4.5%	D'Atanasio et al. 2018
	Chadic						
		Afro-Asiatic	Guidar	Cameroon (North)	9	22.2%	D'Atanasio et al. 2018
		Afro-Asiatic	Hausa	Nigeria (North)	9	11.1%	D'Atanasio et al. 2018
		Afro-Asiatic	Mandara	Cameroon (North)	82	4.9%	D'Atanasio et al. 2018
	Khoisan						
		Khoe-Kwadi	!Kung	Angola	64	15.6%	D'Atanasio et al. 2018
	Mande						
		Niger-Congo	North Samo	Burkina Faso	38	5.0%	Barbieri et al. 2012
		Niger-Congo	South Samo	Burkina Faso	41	2.0%	Barbieri et al. 2012
	Nilo-Saharan						
		Nilo-Saharan	Sara	Chad	12	41.7%	D'Atanasio et al. 2018
		Nilo-Saharan	Madjingay	Chad	15	26.7%	D'Atanasio et al. 2018
		Nilo-Saharan	Mbuti Pygmiesb	Democratic Republic Congo	13	23.1%	D'Atanasio et al. 2018
		Nilo-Saharan	Gor	Chad	9	22.2%	D'Atanasio et al. 2018

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-U174	Reference
		Nilo-Saharan	Kanuri	Cameroon (North)	7	14.3%	D'Atanasio et al. 2018
		Nilo-Saharan	Maasai	Kenya	44	13.6%	D'Atanasio et al. 2018
		Nilo-Saharan	Ngambai	Cameroon (North)	11	9.1%	D'Atanasio et al. 2018
		Nilo-Saharan	Ngambai	Chad	12	8.3%	D'Atanasio et al. 2018
	Non-Bantoid						
		Niger-Congo	Yoruba	Nigeria	12	66.7%	Barbieri et al. 2012
		Niger-Congo	Yoruba	Nigeria (South)	20	50.0%	D'Atanasio et al. 2018
		Niger-Congo	Tali	Cameroon (North)	22	22.7%	D'Atanasio et al. 2018
		Niger-Congo	Moundang	Chad	5	20.0%	D'Atanasio et al. 2018
		Niger-Congo	Fali	Cameroon (North)	105	20.0%	D'Atanasio et al. 2018
		Niger-Congo	Mboum	Cameroon (North)	10	10.0%	D'Atanasio et al. 2018
		Niger-Congo	Kassena	Burkina Faso	33	9.1%	Barbieri et al. 2012
		Niger-Congo	Nuna	Burkina Faso	29	6.9%	Barbieri et al. 2012
		Niger-Congo	Fulbe	Nigeria (North)	32	6.3%	D'Atanasio et al. 2018
		Niger-Congo	Mossi	Burkina Faso	36	6.0%	Barbieri et al. 2012
		Niger-Congo	Fulbe	Cameroon (North)/Chad	79	5.1%	D'Atanasio et al. 2018
		Niger-Congo	Lyela	Burkina Faso	40	5.0%	Barbieri et al. 2012
		Niger-Congo	Samoya	Burkina Faso	21	4.8%	Barbieri et al. 2012
		Niger-Congo	Moundang	Cameroon (North)	21	4.8%	D'Atanasio et al. 2018

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-U174	Reference
		Niger-Congo	Pana	Burkina Faso	24	4.2%	Barbieri et al. 2012
		Niger-Congo	Toupouri	Cameroon (North)	31	3.2%	D'Atanasio et al. 2018

Supplementary Table 5.10. Contemporary Distribution of the U175 Mutation.

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-U175	Reference
North Africa							
	Berber						
		Afro-Asiatic	Ouarzazate Berbers	Morocco	31	12.9%	D'Atanasio et al. 2018
		Afro-Asiatic	Marrakech Berbers	Morocco	27	3.7%	D'Atanasio et al. 2018
		Afro-Asiatic	Mozabite Berbers ^b	Algeria	67	3.0%	D'Atanasio et al. 2018
		Afro-Asiatic	Souss Berbers	Morocco	34	2.9%	D'Atanasio et al. 2018
	Semitic						
		Afro-Asiatic	Egyptians from Baharia	Egypt	41	2.4%	D'Atanasio et al. 2018
		Afro-Asiatic	Northern Egyptians	Egypt	52	1.9%	D'Atanasio et al. 2018
Sub-Saharan Africa							
	Bantoid						
		Niger-Congo	Bakaka	Cameroon (South)	12	66.7%	D'Atanasio et al. 2018
		Niger-Congo	Ewondo	Cameroon (South)	31	61.3%	D'Atanasio et al. 2018
		Niger-Congo	Hutu	Burundi	14	42.9%	D'Atanasio et al. 2018
		Niger-Congo	Mbukushu	Zambia	12	41.7%	Bajik et al. 2018
		Niger-Congo	Owambo	Namibia	20	40.0%	Bajik et al. 2018
		Niger-Congo	Tswana	Botswana	18	38.9%	Bajik et al. 2018
		Niger-Congo	Bamileke	Cameroon (South)	52	36.5%	D'Atanasio et al. 2018
		Niger-Congo	Himba	Namibia	21	33.3%	Bajik et al. 2018
		Niger-Congo	Kalanga	Botswana	19	31.6%	Bajik et al. 2018

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-U175	Reference
		Niger-Congo	Twa Pygmies	Burundi	7	28.6%	D'Atanasio et al. 2018
		Niger-Congo	Herero	Namibia	29	24.1%	Bajik et al. 2018
		Niger-Congo	Kgalagadi	Botswana	21	23.8%	Bajik et al. 2018
		Niger-Congo	Bantu from Kampala	Uganda	13	23.1%	D'Atanasio et al. 2018
		Niger-Congo	Tutsi	Burundi	9	22.2%	D'Atanasio et al. 2018
		Niger-Congo	Biaka Pygmies	Central African Republic	33	21.2%	D'Atanasio et al. 2018
		Niger-Congo	Luhya	Kenya	51	13.7%	D'Atanasio et al. 2018
		Niger-Congo	Bantu	South Africa	8	12.5%	D'Atanasio et al. 2018
	Berber						
		Afro-Asiatic	Tuareg	Niger	22	22.7%	D'Atanasio et al. 2018
	Chadic						
		Afro-Asiatic	Other Chadic	Chad	5	40.0%	D'Atanasio et al. 2018
		Afro-Asiatic	Daba	Cameroon (North)	29	24.1%	D'Atanasio et al. 2018
		Afro-Asiatic	Hausa	Nigeria (North)	9	22.2%	D'Atanasio et al. 2018
		Afro-Asiatic	Guiziga	Cameroon (North)	9	22.2%	D'Atanasio et al. 2018
		Afro-Asiatic	Moussei	Chad	7	14.3%	D'Atanasio et al. 2018
		Afro-Asiatic	Massa	Chad	11	9.1%	D'Atanasio et al. 2018
		Afro-Asiatic	Mandara	Cameroon (North)	82	1.2%	D'Atanasio et al. 2018
	Khoisan						
		Khoe-Kwadi	Shua	Botswana	24	50.0%	Bajik et al. 2018
		Khoe-Kwadi	Khwe	Namibia	26	50.0%	D'Atanasio et al. 2018
		Khoe-Kwadi	ǁXo	Botswana	20	35.0%	Bajik et al. 2018
		Kx'a	ǀHoan	Botswana	13	30.8%	Bajik et al. 2018

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-U175	Reference
		Khoe-Kwadi	Ani/Buga	Botswana	24	29.2%	Bajik et al. 2018
		Khoe-Kwadi	Hai om	Namibia	37	27.0%	Bajik et al. 2018
		Khoe-Kwadi	!Kung	Angola	64	23.4%	D'Atanasio et al. 2018
		Kx'a	!Xuun	Namibia	25	20.0%	Bajik et al. 2018
		Khoe-Kwadi	Damara	Namibia	36	16.7%	Bajik et al. 2018
		Tuu	Taa_West	Botswana	31	12.9%	Bajik et al. 2018
		Khoe-Kwadi	G ui	Botswana	18	11.1%	Bajik et al. 2018
		Khoe-Kwadi	Nama	Namibia	28	10.7%	Bajik et al. 2018
		Tuu	Taa_East	Botswana	21	9.5%	Bajik et al. 2018
		Kx'a	Ju 'hoan_North	Botswana	22	9.1%	Bajik et al. 2018
		Khoe-Kwadi	Tshwa	Botswana	15	6.7%	Bajik et al. 2018
		Khoe-Kwadi	G ana	Botswana	19	5.3%	Bajik et al. 2018
		Tuu	Taa_North	Botswana	23	4.3%	Bajik et al. 2018
	Mande						
		Niger-Congo	Marka	Burkina Faso	33	12.0%	Barbieri et al. 2012
		Niger-Congo	Mandenka	Senegal	15	6.7%	Barbieri et al. 2012
		Niger-Congo	Mandenka	Senegal	16	6.3%	D'Atanasio et al. 2018
		Niger-Congo	Bisa	Burkina Faso	40	5.0%	Barbieri et al. 2012
	Nilo-Saharan						
		Nilo-Saharan	Songhai	Niger	10	60.0%	D'Atanasio et al. 2018
		Nilo-Saharan	Goulaye	Chad	7	28.6%	D'Atanasio et al. 2018
		Nilo-Saharan	Gor	Chad	9	22.2%	D'Atanasio et al. 2018
		Nilo-Saharan	Ngambai	Cameroon (North)	11	18.2%	D'Atanasio et al. 2018
		Nilo-Saharan	Maasai	Kenya	44	13.6%	D'Atanasio et al. 2018

Region	Language Group	Language Family	Population	Location	Sample Size	E1b-U175	Reference
		Nilo-Saharan	Nilotic from Karamoja	Uganda	64	12.5%	D'Atanasio et al. 2018
		Nilo-Saharan	Ngambai	Chad	12	8.3%	D'Atanasio et al. 2018
		Nilo-Saharan	Mbuti Pygmies ^b	Democratic Republic Congo	13	7.7%	D'Atanasio et al. 2018
		Nilo-Saharan	Madjingay	Chad	15	6.7%	D'Atanasio et al. 2018
	Non-Bantoid						
		Niger-Congo	Mossi	Burkina Faso	36	67.0%	Barbieri et al. 2012
		Niger-Congo	Kassena	Burkina Faso	33	45.5%	Barbieri et al. 2012
		Niger-Congo	Pana	Burkina Faso	24	41.7%	Barbieri et al. 2012
		Niger-Congo	Mboum	Cameroon (North)	10	30.0%	D'Atanasio et al. 2018
		Niger-Congo	Fulbe	Niger	7	28.6%	D'Atanasio et al. 2018
		Niger-Congo	Lyela	Burkina Faso	40	27.5%	Barbieri et al. 2012
		Niger-Congo	Tali	Cameroon (North)	22	22.7%	D'Atanasio et al. 2018
		Niger-Congo	North Samo	Burkina Faso	38	21.0%	Barbieri et al. 2012
		Niger-Congo	Yoruba	Nigeria (South)	20	20.0%	D'Atanasio et al. 2018
		Niger-Congo	South Samo	Burkina Faso	41	20.0%	Barbieri et al. 2012
		Niger-Congo	Samoya	Burkina Faso	21	19.0%	Barbieri et al. 2012
		Niger-Congo	Fulbe	Nigeria (North)	32	15.6%	D'Atanasio et al. 2018
		Niger-Congo	Fali	Cameroon (North)	105	10.5%	D'Atanasio et al. 2018
		Niger-Congo	Nuna	Burkina Faso	29	10.3%	Barbieri et al. 2012
		Niger-Congo	Toupouri	Cameroon (North)	31	9.7%	D'Atanasio et al. 2018
		Niger-Congo	Yoruba	Nigeria	12	8.3%	Barbieri et al. 2012
		Niger-Congo	Moundang	Cameroon (North)	21	4.8%	D'Atanasio et al. 2018
		Niger-Congo	Fulbe	Cameroon (North)/Chad	79	3.8%	D'Atanasio et al. 2018

Supplementary Table 5.11. Contemporary Distribution of E1b-U174 among Farmers and Foragers.

Culture	Language Family	Population	Location	Sample Size	E1b-U174	Reference
Bantu Farmers						
	Niger-Congo	Luhya	Kenya	51	60.8%	D'Atanasio et al. 2018
	Niger-Congo	Bantu from Kampala	Uganda	13	53.8%	D'Atanasio et al. 2018
	Niger-Congo	Bamileke	Cameroon (South)	52	51.9%	D'Atanasio et al. 2018
	Niger-Congo	Tutsi	Burundi	9	44.4%	D'Atanasio et al. 2018
	Niger-Congo	Kikuyu	Kenya	9	44.4%	D'Atanasio et al. 2018
	Niger-Congo	Hutu	Burundi	14	35.7%	D'Atanasio et al. 2018
	Niger-Congo	Ewondo	Cameroon (South)	31	25.8%	D'Atanasio et al. 2018
	Niger-Congo	Bantu	South Africa	8	12.5%	D'Atanasio et al. 2018
Khoisan Foragers						
	Khoe-Kwadi	!Kung	Angola	64	15.6%	D'Atanasio et al. 2018
Pygmy Foragers						
	Niger-Congo	Biaka Pygmies	Central African Republic	33	45.5%	D'Atanasio et al. 2018
	Niger-Congo	Bakaka	Cameroon (South)	12	16.7%	D'Atanasio et al. 2018
	Niger-Congo	Twa Pygmies	Burundi	7	14.3%	D'Atanasio et al. 2018

Supplementary Table 5.12. Contemporary Distribution of E1b-U175 among Farmers and Foragers.

Culture	Language Family	Population	Location	Sample Size	E1b-U175	Reference
Bantu						
	Niger-Congo	Ewondo	Cameroon (South)	31	61.3%	D'Atanasio et al. 2018
	Niger-Congo	Hutu	Burundi	14	42.9%	D'Atanasio et al. 2018
	Niger-Congo	Mbukushu	Zambia	12	41.7%	Bajik et al. 2018
	Niger-Congo	Owambo	Namibia	20	40.0%	Bajik et al. 2018
	Niger-Congo	Tswana	Botswana	18	38.9%	Bajik et al. 2018
	Niger-Congo	Bamileke	Cameroon (South)	52	36.5%	D'Atanasio et al. 2018
	Niger-Congo	Himba	Namibia	21	33.3%	Bajik et al. 2018
	Niger-Congo	Kalanga	Botswana	19	31.6%	Bajik et al. 2018
	Niger-Congo	Herero	Namibia	29	24.1%	Bajik et al. 2018
	Niger-Congo	Kgalagadi	Botswana	21	23.8%	Bajik et al. 2018
	Niger-Congo	Bantu from Kampala	Uganda	13	23.1%	D'Atanasio et al. 2018
	Niger-Congo	Tutsi	Burundi	9	22.2%	D'Atanasio et al. 2018
	Niger-Congo	Luhya	Kenya	51	13.7%	D'Atanasio et al. 2018
	Niger-Congo	Bantu	South Africa	8	12.5%	D'Atanasio et al. 2018
Pygmy						
	Niger-Congo	Bakaka	Cameroon (South)	12	66.7%	D'Atanasio et al. 2018
	Niger-Congo	Twa Pygmies	Burundi	7	28.6%	D'Atanasio et al. 2018
	Niger-Congo	Biaka Pygmies	Central African Republic	33	21.2%	D'Atanasio et al. 2018

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Supplementary Tables for Chapter Six and Haplogroup C1-F3393



Supplementary Table 6.1. Contemporary Distribution of Haplogroup C1-F3393.

Region	Language Group	Language Family	Population	Location	Sample Size	C1-F3393	Reference
Australia							
	Australian						
		Australian	Aboriginal Australians	Northern Territory	68	64.7%	Nagle et al. 2016
		Australian	Aboriginal Australians	South Australia	169	42.0%	Nagle et al. 2016
		Australian	Aboriginal Australians	Queensland	33	15.2%	Nagle et al. 2016
		Australian	Aboriginal Australians	Victoria	22	9.1%	Nagle et al. 2016
East Asia							
	Austro-Asiatic						
		Austro-Asiatic	Mon (MO1)	Northeast Thailand	18	10.5%	Kutanan et al. 2020
	Austronesian						
		Austronesian	Giarai	Vietnam	27	3.7%	Macholdt et al. 2020
	Hmong-Mien						
		Hmong-Mien	Hmong	Vietnam	41	24.4%	Macholdt et al. 2020
		Hmong-Mien	Pathen	Vietnam	36	2.8%	Macholdt et al. 2020
		Hmong-Mien	Dao	Vietnam	43	2.3%	Macholdt et al. 2020
	Japonic						
		Japonic	Japanese	Japan	2390	4.7%	Sato et al. 2014
	Tai-Kadai						
		Tai-Kadai	Yuan (YU1)	North Thailand	20	7.1%	Kutanan et al. 2020
		Tai-Kadai	Khuen (TKH)	North Thailand	14	5.9%	Kutanan et al. 2020

Region	Language Group	Language Family	Population	Location	Sample Size	C1-F3393	Reference
		Tai-Kadai	Central Thai (CT5)	Central Thailand	17	5.6%	Kutanan et al. 2020
		Tai-Kadai	Central Thai (CT2)	Central Thailand	19	5.3%	Kutanan et al. 2020
		Tai-Kadai	Laotian (LA2)	Central Laos	19	5.0%	Kutanan et al. 2020
		Tai-Kadai	Colao	Vietnam	34	2.9%	Macholdt et al. 2020
		Tai-Kadai	Nung	Vietnam	37	2.7%	Macholdt et al. 2020
Island Southeast Asia							
	Austronesian						
		Austronesian	Adonara	Eastern Indonesia	96	80.2%	Mona et al. 2009
		Austronesian	Fatuketi	West Timor	35	65.7%	Tumonggor et al. 2014
		Austronesian	Kateri	West Timor	50	58.0%	Tumonggor et al. 2014
		Austronesian	Sumba	Eastern Indonesia	350	57.4%	Karafet et al. 2010
		Austronesian	Kletek Wefatuk	West Timor	15	53.3%	Tumonggor et al. 2014
		Austronesian	Raimanawe	West Timor	50	48.0%	Tumonggor et al. 2014
		Austronesian	Lawalu	West Timor	49	44.9%	Tumonggor et al. 2014
		Austronesian	Laran	West Timor	50	40.0%	Tumonggor et al. 2014
		Austronesian	Solor	Eastern Indonesia	43	39.5%	Mona et al. 2009
		Austronesian	Flores	Eastern Indonesia	71	39.4%	Mona et al. 2009
		Austronesian	Lele	Admiralty Islands	23	39.1%	Kayser et al. 2008
		Austronesian	Sudest	Papua New Guinea	38	36.8%	Oven et al. 2014
		Austronesian	East Timor	Eastern Indonesia	33	36.4%	Mona et al. 2009
		Austronesian	Kamanasa	West Timor	62	35.5%	Tumonggor et al. 2014
		Austronesian	Kletek Rainan	West Timor	17	29.4%	Tumonggor et al. 2014
		Austronesian	Kakaniuk	West Timor	47	27.6%	Tumonggor et al. 2014

Region	Language Group	Language Family	Population	Location	Sample Size	C1-F3393	Reference
		Austronesian	Kletek Suai	West Timor	15	26.7%	Tumonggor et al. 2014
		Austronesian	Besikama	West Timor	42	23.8%	Tumonggor et al. 2014
		Austronesian	Umaklaran	West Timor	41	22.0%	Tumonggor et al. 2014
		Austronesian	Lembata	Eastern Indonesia	92	20.7%	Karafet et al. 2010
		Austronesian	Lembata	Eastern Indonesia	31	19.4%	Mona et al. 2009
		Austronesian	Titan	Admiralty Islands	21	19.0%	Kayser et al. 2008
		Austronesian	Nyindrou	Admiralty Islands	17	17.6%	Kayser et al. 2008
		Austronesian	Fergusson	Papua New Guinea	35	17.1%	Oven et al. 2014
		Austronesian	Kurti	Admiralty Islands	18	16.7%	Kayser et al. 2008
		Austronesian	Nali	Admiralty Islands	19	15.8%	Kayser et al. 2008
		Austronesian	Flores	Eastern Indonesia	394	15.5%	Karafet et al. 2010
		Austronesian	Notsi	PNG, New Ireland	14	14.3%	Scheinfeldt et al. 2006
		Austronesian	Tolai	PNG, East New Britain	49	12.3%	Scheinfeldt et al. 2006
		Austronesian	Nalik	PNG, New Ireland	17	11.8%	Scheinfeldt et al. 2006
		Austronesian	Sulawesi	Eastern Indonesia	54	11.1%	Karafet et al. 2010
		Austronesian	Trobriand Islands	Papua New Guinea	60	10.0%	Oven et al. 2014
		Austronesian	Andra-Hus	Admiralty Islands	20	10.0%	Kayser et al. 2008
		Austronesian	Wanigela	Papua New Guinea	21	9.5%	Oven et al. 2014
		Austronesian	Trobriand Islands	Papua New Guinea	53	9.4%	Kayser et al. 2006
		Austronesian	Seimat-Wuvulu	Admiralty Islands	11	9.1%	Kayser et al. 2008
		Austronesian	Bereina	Papua New Guinea	35	5.7%	Kayser et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	C1-F3393	Reference
		Austronesian	Nakanai	PNG, West New Britain	36	5.6%	Scheinfeldt et al. 2006
		Austronesian	Teop	Bougainville	18	5.6%	Scheinfeldt et al. 2006
		Austronesian	Mainland (eastern tip)	Papua New Guinea	24	4.2%	Oven et al. 2014
		Austronesian	Normanby	Papua New Guinea	27	3.7%	Oven et al. 2014
Creole							
		Creole	Vanuatu	Vanuatu	44	22.8%	Karafet et al. 2010
	Papuan	Trans-New Guinea	Lani	Western New Guinea	12	100.0%	Kayser et al. 2003
		Trans-New Guinea	Dani	Western New Guinea	12	91.7%	Kayser et al. 2003
		Maybrat	Maibrat	Northwest New Guinea	24	66.7%	Mona et al. 2007
		Trans-New Guinea	Baham	Northwest New Guinea	24	62.5%	Mona et al. 2007
		Trans-New Guinea	Alor	Eastern Indonesia	23	43.5%	Mona et al. 2009
		Maybrat	Karon Dori	Northwest New Guinea	22	36.3%	Mona et al. 2007
		Trans-New Guinea	Alor	Eastern Indonesia	28	33.3%	Karafet et al. 2010
		East Bird's Head-Sentani	Moskona	Northwest New Guinea	10	31.3%	Mona et al. 2007
		Trans-New Guinea	Tialai	West Timor	24	29.2%	Tumonggor et al. 2014
		Trans-New Guinea	Pantar	Eastern Indonesia	28	28.6%	Mona et al. 2009
		East Bird's Head-Sentani	Mantion	Northwest New Guinea	11	27.3%	Mona et al. 2007

Region	Language Group	Language Family	Population	Location	Sample Size	C1-F3393	Reference
		Trans-New Guinea	Asmat	Western New Guinea	20	20.0%	Kayser et al. 2003
		Isolate	Hatam	Northwest New Guinea	12	16.7%	Mona et al. 2007
		Trans-New Guinea	Muyu	Western New Guinea	8	12.5%	Kayser et al. 2003
		Trans-New Guinea	Citak	Western New Guinea	28	7.1%	Kayser et al. 2003
		Isolate	Kuot	PNG, New Ireland	32	6.3%	Scheinfeldt et al. 2006
		Trans-New Guinea	Ekari	Northwest New Guinea	19	5.3%	Mona et al. 2007
		Trans-New Guinea	Highlands	Papua New Guinea	31	3.2%	Kayser et al. 2006
		Yele-West New Britain	Anem	PNG, West New Britain	34	2.9%	Scheinfeldt et al. 2006
Oceania							
	Austronesian						
		Austronesian	Rapa Nui	Rapa Nui	10	90.0%	Karafet et al. 2010
		Austronesian	Easter Islanders	Rapa Nui	26	80.8%	Thorsby 2012
		Austronesian	Cook Islanders	Cook Island	77	77.9%	Kayser et al. 2006
		Austronesian	Samoans	Samoa	12	75.0%	Karafet et al. 2010
		Austronesian	Samoans	American Samoa	6	66.7%	Karafet et al. 2010
		Austronesian	Tahitians	Tahiti	24	66.7%	Karafet et al. 2010
		Austronesian	West Samoa	Samoa Archipelago	61	60.7%	Mirabal et al. 2012
		Austronesian	Ontong Java	Solomon Islands	32	59.4%	Delfin et al. 2012
		Austronesian	Samoans	Samoa	62	58.3%	Kayser et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	C1-F3393	Reference
		Austronesian	Manua	Samoan Archipelago	21	57.2%	Mirabal et al. 2012
		Austronesian	Santa Cruz	Solomon Islands	36	36.1%	Delfin et al. 2012
		Austronesian	Tongans	Tonga	29	34.4%	Kayser et al. 2006
		Austronesian	Malaita	Solomon Islands	98	33.7%	Delfin et al. 2012
		Austronesian	Tutula	Samoan Archipelago	24	33.3%	Mirabal et al. 2012
		Austronesian	Tongans	Tonga	12	33.3%	Karafet et al. 2010
		Austronesian	East Futunans	East Futuna	50	30.0%	Kayser et al. 2006
		Austronesian	Rennel	Solomon Islands	38	26.3%	Delfin et al. 2012
		Austronesian	Fijians	Fiji	107	21.5%	Kayser et al. 2006
		Austronesian	Tongans	Polynesia	52	19.3%	Mirabal et al. 2012
		Austronesian	Tuvalu	Tuvalu	100	17.0%	Kayser et al. 2006
		Austronesian	Guadalcanal	Solomon Islands	53	15.1%	Delfin et al. 2012
		Austronesian	Gela	Solomon Islands	47	12.8%	Delfin et al. 2012
		Austronesian	Tikopia	Solomon Islands	52	11.5%	Delfin et al. 2012
		Austronesian	Bellona	Solomon Islands	28	10.7%	Delfin et al. 2012
		Austronesian	Isabel	Solomon Islands	53	3.8%	Delfin et al. 2012
	Papuan						
		Central Solomons	Russell Islanders	Solomon Islands	32	12.5%	Delfin et al. 2012
		Central Solomons	Savo	Solomon Islands	30	3.3%	Delfin et al. 2012
		Central Solomons	Vella Lavella	Solomon Islands	44	2.3%	Delfin et al. 2012
South Asia	Austro-Asiatic						
		Austro-Asiatic	Lodha	East India	20	5.0%	Sengupta et al. 2006
	Dravidian						

Region	Language Group	Language Family	Population	Location	Sample Size	C1-F3393	Reference
		Dravidian	Soliga Tribe	Karataka, India	77	11.5%	Rowald et al. 2020
		Dravidian	Kadar	Tamil Nadu, India	28	10.7%	Arunkumar et al. 2012
		Dravidian	Paliyan	Tamil Nadu, India	95	10.5%	Arunkumar et al. 2012
		Dravidian	Parayar NTN	Tamil Nadu, India	52	7.7%	Arunkumar et al. 2012
		Dravidian	Iyer	South India	29	6.9%	Sengupta et al. 2006
		Dravidian	Valayar	Tamil Nadu, India	95	6.3%	Arunkumar et al. 2012
		Dravidian	Vanniyar NTN	Tamil Nadu, India	96	6.3%	Arunkumar et al. 2012
		Dravidian	Irula	Tamil Nadu, India	80	6.3%	Arunkumar et al. 2012
		Dravidian	Parayar	Tamil Nadu, India	24	4.2%	Arunkumar et al. 2012
		Dravidian	Tamil Jains	Tamil Nadu, India	100	4.0%	Arunkumar et al. 2012
		Dravidian	Brahui	South Pakistan	25	4.0%	Sengupta et al. 2006
		Dravidian	Vanniyar	South India	25	4.0%	Sengupta et al. 2006
		Dravidian	Thoda	Tamil Nadu, India	26	3.8%	Arunkumar et al. 2012
		Dravidian	Irula	South India	30	3.3%	Sengupta et al. 2006
		Dravidian	Nadar Cape	Tamil Nadu, India	98	3.1%	Arunkumar et al. 2012
		Dravidian	Lingayat	Southwest India	101	3.0%	Chennakrishnaiah et al. 2013
		Dravidian	Kurumba	Tamil Nadu, India	35	2.9%	Arunkumar et al. 2012
		Dravidian	Yadhava	Tamil Nadu, India	107	2.8%	Arunkumar et al. 2012
		Dravidian	Kattunaickan	Tamil Nadu, India	46	2.2%	Arunkumar et al. 2012
		Dravidian	Pallar	Tamil Nadu, India	51	2.0%	Arunkumar et al. 2012
		Dravidian	Vokkaliga	Southwest India	102	2.0%	Chennakrishnaiah et al. 2013
		Dravidian	Piramalai Kallar	Tamil Nadu, India	53	1.9%	Arunkumar et al. 2012
		Dravidian	Pulayar	Tamil Nadu, India	63	1.6%	Arunkumar et al. 2012
	Indo-Aryan						
		Indo-European	Mahishya	East India	13	7.7%	Sengupta et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	C1-F3393	Reference
		Indo-European	Sourashtra	Tamil Nadu, India	40	7.5%	Arunkumar et al. 2012
		Indo-European	Nav Buddha	West India	14	7.1%	Sengupta et al. 2006
		Indo-European	Chamar	Northern India	18	5.6%	Sengupta et al. 2006
		Indo-European	Maratha	West India	20	5.0%	Sengupta et al. 2006
		Indo-European	Rajput	Northern India	29	3.4%	Sengupta et al. 2006
		Indo-European	Tharu	Chitwan, Nepal	77	1.3%	Fornarino et al. 2009
	Tibeto-Burman						
		Tibeto-Burman	Newar	Nepal	66	3.0%	Gayden et al. 2007

Supplementary Table 6.2. Contemporary Distribution of the C1a-M356 Mutation.

Region	Language Group	Language Family	Population	Location	Sample Size	C1a-M356	Reference
East Asia							
	Austronesian						
		Austronesian	Giarai	Vietnam	27	3.7%	Macholdt et al. 2020
	Tai-Kadai						
		Tai-Kadai	Central Thai (CT2)	Central Thailand	19	5.3%	Kutanan et al. 2020
South Asia							
	Austro-Asiatic						
		Austro-Asiatic	Lodha	East India	20	5.0%	Sengupta et al. 2006
	Dravidian						
		Dravidian	Soliga Tribe	Karataka, India	77	11.5%	Rowald et al. 2020
		Dravidian	Kadar	Tamil Nadu, India	28	10.7%	Arunkumar et al. 2012
		Dravidian	Paliyan	Tamil Nadu, India	95	10.5%	Arunkumar et al. 2012
		Dravidian	Parayar NTN	Tamil Nadu, India	52	7.7%	Arunkumar et al. 2012
		Dravidian	Iyer	South India	29	6.9%	Sengupta et al. 2006
		Dravidian	Vanniyar NTN	Tamil Nadu, India	96	6.3%	Arunkumar et al. 2012
		Dravidian	Valayar	Tamil Nadu, India	95	6.3%	Arunkumar et al. 2012
		Dravidian	Irula	Tamil Nadu, India	80	6.3%	Arunkumar et al. 2012
		Dravidian	Parayar	Tamil Nadu, India	24	4.2%	Arunkumar et al. 2012
		Dravidian	Tamil Jains	Tamil Nadu, India	100	4.0%	Arunkumar et al. 2012
		Dravidian	Brahui	South Pakistan	25	4.0%	Sengupta et al. 2006
		Dravidian	Vanniyar	South India	25	4.0%	Sengupta et al. 2006
		Dravidian	Thoda	Tamil Nadu, India	26	3.8%	Arunkumar et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	C1a-M356	Reference
		Dravidian	Irula	South India	30	3.3%	Sengupta et al. 2006
		Dravidian	Nadar Cape	Tamil Nadu, India	98	3.1%	Arunkumar et al. 2012
		Dravidian	Lingayat	Southwest India	101	3.0%	Chennakrishnaiah et al. 2013
		Dravidian	Kurumba	Tamil Nadu, India	35	2.9%	Arunkumar et al. 2012
		Dravidian	Yadhava	Tamil Nadu, India	107	2.8%	Arunkumar et al. 2012
		Dravidian	Kattunaickan	Tamil Nadu, India	46	2.2%	Arunkumar et al. 2012
		Dravidian	Pallar	Tamil Nadu, India	51	2.0%	Arunkumar et al. 2012
		Dravidian	Vokkaliga	Southwest India	102	2.0%	Chennakrishnaiah et al. 2013
		Dravidian	Piramalai Kallar	Tamil Nadu, India	53	1.9%	Arunkumar et al. 2012
		Dravidian	Pulayar	Tamil Nadu, India	63	1.6%	Arunkumar et al. 2012
	Indo-Aryan						
		Indo-European	Mahishya	East India	13	7.7%	Sengupta et al. 2006
		Indo-European	Sourashtra	Tamil Nadu, India	40	7.5%	Arunkumar et al. 2012
		Indo-European	Nav Buddha	West India	14	7.1%	Sengupta et al. 2006
		Indo-European	Chamar	Northern India	18	5.6%	Sengupta et al. 2006
		Indo-European	Maratha	West India	20	5.0%	Sengupta et al. 2006
		Indo-European	Rajput	Northern India	29	3.4%	Sengupta et al. 2006
		Indo-European	Tharu	Chitwan, Nepal	77	1.3%	Fornarino et al. 2009
	Tibeto-Burman						
		Tibeto-Burman	Newar	Nepal	66	3.0%	Gayden et al. 2007

Supplementary Table 6.3. Contemporary Distribution of C1b-M38 (x M208).

Region	Language Group	Language Family	Population	Location	Sample Size	C1b-M38 (x M208)	Reference
Island Southeast Asia	Austronesian	Austronesian	Adonara	Eastern Indonesia	96	76.0%	Mona et al. 2009
		Austronesian	Fatuketi	West Timor	35	65.7%	Tumonggor et al. 2014
		Austronesian	Kateri	West Timor	50	58.0%	Tumonggor et al. 2014
		Austronesian	Sumba	Eastern Indonesia	350	57.4%	Karafet et al. 2010
		Austronesian	Kletek Wefatuk	West Timor	15	53.3%	Tumonggor et al. 2014
		Austronesian	Raimanawe	West Timor	50	48.0%	Tumonggor et al. 2014
		Austronesian	Lawalu	West Timor	49	44.9%	Tumonggor et al. 2014
		Austronesian	Laran	West Timor	50	40.0%	Tumonggor et al. 2014
		Austronesian	Flores	Eastern Indonesia	71	39.4%	Mona et al. 2009
		Austronesian	Solor	Eastern Indonesia	43	37.2%	Mona et al. 2009
		Austronesian	East Timor	Eastern Indonesia	33	36.4%	Mona et al. 2009
		Austronesian	Kamanasa	West Timor	62	33.9%	Tumonggor et al. 2014
		Austronesian	Kletek Rainan	West Timor	17	29.4%	Tumonggor et al. 2014
		Austronesian	Kakaniuk	West Timor	47	27.6%	Tumonggor et al. 2014
		Austronesian	Kletek Suai	West Timor	15	26.7%	Tumonggor et al. 2014
		Austronesian	Besikama	West Timor	42	23.8%	Tumonggor et al. 2014
		Austronesian	Umaklaran	West Timor	41	22.0%	Tumonggor et al. 2014
		Austronesian	Lembata	Eastern Indonesia	92	20.7%	Karafet et al. 2010
		Austronesian	Lembata	Eastern Indonesia	31	19.4%	Mona et al. 2009
		Austronesian	Flores	Eastern Indonesia	394	15.5%	Karafet et al. 2010
Austronesian	Notsi	PNG, New Ireland	14	14.3%	Scheinfeldt et al. 2006		

Region	Language Group	Language Family	Population	Location	Sample Size	C1b-M38 (x M208)	Reference
		Austronesian	Nalik	PNG, New Ireland	17	11.8%	Scheinfeldt et al. 2006
		Austronesian	Sulawesi	Eastern Indonesia	54	11.1%	Karafet et al. 2010
		Austronesian	Tolai	PNG, East New Britain	49	8.2%	Scheinfeldt et al. 2006
		Austronesian	Nakanai	PNG, West New Britain	36	5.6%	Scheinfeldt et al. 2006
		Austronesian	Teop	Bougainville	18	5.6%	Scheinfeldt et al. 2006
		Austronesian	Kurti	Admiralty Islands	18	5.6%	Kayser et al. 2008
		Austronesian	Andra-Hus	Admiralty Islands	20	5.0%	Kayser et al. 2008
	Creole						
		Creole	Vanuatu	Vanuatu	44	20.5%	Karafet et al. 2010
	Papuan						
		Maybrat	Maibrat	Northwest New Guinea	24	66.7%	Mona et al. 2007
		Trans-New Guinea	Baham	Northwest New Guinea	24	62.5%	Mona et al. 2007
		Trans-New Guinea	Alor	Eastern Indonesia	23	43.5%	Mona et al. 2009
		Trans-New Guinea	Alor	Eastern Indonesia	28	33.3%	Karafet et al. 2010
		Maybrat	Karon Dori	Northwest New Guinea	22	31.8%	Mona et al. 2007
		East Bird's Head-Sentani	Moskona	Northwest New Guinea	10	31.3%	Mona et al. 2007
		Trans-New Guinea	Pantar	Eastern Indonesia	28	28.6%	Mona et al. 2009
		East Bird's Head-Sentani	Mantion	Northwest New Guinea	11	27.3%	Mona et al. 2007
		Trans-New Guinea	Tialai	West Timor	24	25.0%	Tumonggor et al. 2014
		Trans-New Guinea	Asmat	Western New Guinea	20	20.0%	Kayser et al. 2003

Region	Language Group	Language Family	Population	Location	Sample Size	C1b-M38 (x M208)	Reference
		Isolate	Hatam	Northwest New Guinea	12	16.7%	Mona et al. 2007
		Trans-New Guinea	Muyu	Western New Guinea	8	12.5%	Kayser et al. 2003
		Trans-New Guinea	Citak	Western New Guinea	28	7.1%	Kayser et al. 2003
		Isolate	Kuot	PNG, New Ireland	32	6.3%	Scheinfeldt et al. 2006
		Trans-New Guinea	Highlands	Papua New Guinea	31	3.2%	Kayser et al. 2006
Oceania							
	Austronesian						
		Austronesian	Malaita	Solomon Islands	98	13.3%	Delfin et al. 2012
		Austronesian	Fijians	Fiji	107	8.4%	Kayser et al. 2006
		Austronesian	Tongans	Polynesia	52	5.8%	Mirabal et al. 2012
		Austronesian	Santa Cruz	Solomon Islands	36	5.6%	Delfin et al. 2012
		Austronesian	Manua	Samoan Archipelago	21	4.8%	Mirabal et al. 2012
		Austronesian	Gela	Solomon Islands	47	4.3%	Delfin et al. 2012
		Austronesian	Tongans	Tonga	29	3.4%	Kayser et al. 2006
		Austronesian	West Samoa	Samoan Archipelago	61	3.3%	Mirabal et al. 2012
		Austronesian	Rennel	Solomon Islands	38	2.6%	Delfin et al. 2012
		Austronesian	Tikopia	Solomon Islands	52	1.9%	Delfin et al. 2012
		Austronesian	Samoans	Samoa	62	1.6%	Kayser et al. 2006
		Austronesian	Cook Islanders	Cook Island	77	1.3%	Kayser et al. 2006
	Papuan						
		Central Solomons	Savo	Solomon Islands	30	3.3%	Delfin et al. 2012

Supplementary Table 6.4. Contemporary Distribution of the C1b-M208 Mutation.

Region	Language Group	Language Family	Population	Location	Sample Size	C1b-M208	Reference
Island Southeast Asia							
	Austronesian						
		Austronesian	Lele	Admiralty Islands	23	39.1%	Kayser et al. 2008
		Austronesian	Sudest	Papua New Guinea	38	36.8%	Oven et al. 2014
		Austronesian	Titan	Admiralty Islands	21	19.0%	Kayser et al. 2008
		Austronesian	Nyindrou	Admiralty Islands	17	17.6%	Kayser et al. 2008
		Austronesian	Fergusson	Papua New Guinea	35	17.1%	Oven et al. 2014
		Austronesian	Nali	Admiralty Islands	19	15.8%	Kayser et al. 2008
		Austronesian	Kurti	Admiralty Islands	18	11.1%	Kayser et al. 2008
		Austronesian	Trobriand Islands	Papua New Guinea	60	10.0%	Oven et al. 2014
		Austronesian	Wanigela	Papua New Guinea	21	9.5%	Oven et al. 2014
		Austronesian	Trobriand Islands	Papua New Guinea	53	9.4%	Kayser et al. 2006
		Austronesian	Seimat-Wuvulu	Admiralty Islands	11	9.1%	Kayser et al. 2008
		Austronesian	Bereina	Papua New Guinea	35	5.7%	Kayser et al. 2006
		Austronesian	Andra-Hus	Admiralty Islands	20	5.0%	Kayser et al. 2008
		Austronesian	Adonara	Eastern Indonesia	96	4.2%	Mona et al. 2009
		Austronesian	Mainland (eastern tip)	Papua New Guinea	24	4.2%	Oven et al. 2014

Region	Language Group	Language Family	Population	Location	Sample Size	C1b-M208	Reference
		Austronesian	Tolai	PNG, East New Britain	49	4.1%	Scheinfeldt et al. 2006
		Austronesian	Normanby	Papua New Guinea	27	3.7%	Oven et al. 2014
		Austronesian	Solor	Eastern Indonesia	43	2.3%	Mona et al. 2009
		Austronesian	Kamanasa	West Timor	62	1.6%	Tumonggor et al. 2014
	Creole						
		Creole	Vanuatu	Vanuatu	44	2.3%	Karafet et al. 2010
	Papuan						
		Trans-New Guinea	Lani	Western New Guinea	12	100.0%	Kayser et al. 2003
		Trans-New Guinea	Dani	Western New Guinea	12	91.7%	Kayser et al. 2003
		Trans-New Guinea	Ekari	Northwest New Guinea	19	5.3%	Mona et al. 2007
		Maybrat	Karon Dori	Northwest New Guinea	22	4.5%	Mona et al. 2007
		Trans-New Guinea	Tialai	West Timor	24	4.2%	Tumonggor et al. 2014
		Yele-West New Britain	Anem	PNG, West New Britain	34	2.9%	Scheinfeldt et al. 2006
Oceania							
	Austronesian						
		Austronesian	Rapa Nui	Rapa Nui	10	90.0%	Karafet et al. 2010
		Austronesian	Easter Islanders	Rapa Nui	26	80.8%	Thorsby 2012
		Austronesian	Cook Islanders	Cook Island	77	76.6%	Kayser et al. 2006
		Austronesian	Samoans	Samoa	12	75.0%	Karafet et al. 2010
		Austronesian	Samoans	American Samoa	6	66.7%	Karafet et al. 2010

Region	Language Group	Language Family	Population	Location	Sample Size	C1b-M208	Reference
		Austronesian	Tahitians	Tahiti	24	66.7%	Karafet et al. 2010
		Austronesian	Ontong Java	Solomon Islands	32	59.4%	Delfin et al. 2012
		Austronesian	West Samoa	Samoan Archipelago	61	57.4%	Mirabal et al. 2012
		Austronesian	Samoans	Samoa	62	56.7%	Kayser et al. 2006
		Austronesian	Manua	Samoan Archipelago	21	52.4%	Mirabal et al. 2012
		Austronesian	Tutula	Samoan Archipelago	24	33.3%	Mirabal et al. 2012
		Austronesian	Tongans	Tonga	12	33.3%	Karafet et al. 2010
		Austronesian	Tongans	Tonga	29	31.0%	Kayser et al. 2006
		Austronesian	Santa Cruz	Solomon Islands	36	30.5%	Delfin et al. 2012
		Austronesian	East Futunans	East Futuna	50	30.0%	Kayser et al. 2006
		Austronesian	Rennel	Solomon Islands	38	23.7%	Delfin et al. 2012
		Austronesian	Malaita	Solomon Islands	98	20.4%	Delfin et al. 2012
		Austronesian	Tuvalu	Tuvalu	100	17.0%	Kayser et al. 2006
		Austronesian	Guadalcanal	Solomon Islands	53	15.1%	Delfin et al. 2012
		Austronesian	Tongans	Polynesia	52	13.5%	Mirabal et al. 2012
		Austronesian	Fijians	Fiji	107	13.1%	Kayser et al. 2006
		Austronesian	Bellona	Solomon Islands	28	10.7%	Delfin et al. 2012
		Austronesian	Tikopia	Solomon Islands	52	9.6%	Delfin et al. 2012
		Austronesian	Gela	Solomon Islands	47	8.5%	Delfin et al. 2012
		Austronesian	Isabel	Solomon Islands	53	3.8%	Delfin et al. 2012
	Papuan						
		Central Solomons	Russell Islanders	Solomon Islands	32	12.5%	Delfin et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	C1b-M208	Reference
		Central Solomons	Vella Lavella	Solomon Islands	44	2.3%	Delfin et al. 2012

Supplementary Table 6.5. Distribution of Ancient C1-F3393 Mutations.

Earth Sciences	Master ID	Region	Country	Culture 2	Location	Death	Mutation	Reference
MIS 3								
	BB7-240	Eastern Europe	Bulgaria	Paleolithic	Bacho Kiro Cave	44255	C1-F3393	Hajdinjak et al. 2021
	CC7-335	Eastern Europe	Bulgaria	Paleolithic	Bacho Kiro Cave	44255	C1-F3393	Hajdinjak et al. 2021
	Kostenki14	Eastern Europe	Russia	Paleolithic	Kostenki	37470	C1b-F1370	Fu et al. 2016; Reich Dataset V42.4 (2020)
	GoyetQ116-1	Western Europe	Belgium	Paleolithic	Troisieme caverne of Goyet cave	34795	C1a-V20	Fu et al. 2016; Reich Dataset V42.4 (2020)
	Sunghir2	Eastern Europe	Russia	Paleolithic	Sunghir	34234	C1a-V20	Sikora et al. 2017; Reich Dataset V42.4 (2020)
	Sunghir3	Eastern Europe	Russia	Paleolithic	Sunghir	34093	C1a-V20	Sikora et al. 2017; Reich Dataset V42.4 (2020)
	Sunghir4	Eastern Europe	Russia	Paleolithic	Sunghir	33992	C1a-V20	Sikora et al. 2017; Reich Dataset V42.4 (2020)
	Sunghir1	Eastern Europe	Russia	Paleolithic	Sunghir	32823	C1a-V20	Sikora et al. 2017; Reich Dataset V42.4 (2020)
	Vestonice16	Eastern Europe	Czech Republic	Paleolithic	Dolni Vestonice	30010	C1a-V20	Fu et al. 2016; Reich Dataset V42.4 (2020)
MIS 2								
	ZBC	Middle East	Turkey	Paleolithic	Pinarbasi	15405	C1a-V20	Feldman et al. 2019a; Reich Dataset V42.4 (2020)
MIS 1								
	BAL003	Western Europe	Spain	Mesolithic	Balma Guilanya	11922	C1a-P121	Villalba-Mouco et al. 2019; Reich Dataset V42.4 (2020)

Earth Sciences	Master ID	Region	Country	Culture 2	Location	Death	Mutation	Reference
	I1102	Middle East	Turkey	Neolithic	Northwest Anatolia, Marmara, Barcin	8300	C1a-V20	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	Tep006	Middle East	Turkey	Neolithic	Tepecik Ciftlik	8230	C1a-V20	Kilinc et al. 2016; Reich Dataset V42.4 (2020)
	La368	East Asia	Laos	Mesolithic	Northern Bolikhamsay, Pha Faen	7872	C1a-M8	McCull et al. 2018; Reich Dataset V42.4 (2020)
	I0843	Western Europe	Spain	Mesolithic	Leon, La Brana-Arintero	7853	C1a-V20	Olalde et al. 2019; Reich Dataset V42.4 (2020)
	I3947	Eastern Europe	Croatia	Neolithic	Zemunica Cave	7836	C1a-V20	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	I0585	Western Europe	Spain	Mesolithic	Leon, La Brana-Arintero	7815	C1a-V20	Olalde et al. 2014; Reich Dataset V42.4 (2020)
	I0585	Western Europe	Spain	Mesolithic	Leon, La Brana-Arintero	7815	C1a-V20	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	I5070	Western Europe	Austria	Neolithic	Schletz	7056	C1a-V20	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	I1496	Eastern Europe	Hungary	Neolithic	Apc-Berekalya I	7052	C1a-V20	Gamba et al. 2014; Reich Dataset V42.4 (2020)
	I1496	Eastern Europe	Hungary	Neolithic	Apc-Berekalya I	7052	C1a-V20	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	I1500	Eastern Europe	Hungary	Neolithic	Kompolt-Kigyoser	7050	C1a-V20	Gamba et al. 2014; Reich Dataset V42.4 (2020)
	SCH016	Western Europe	Germany	Neolithic	Schwetzingen	7040	C1a-V20	Rivollat et al. 2020
	OBN006	Western Europe	France	Neolithic	Obernai	6986	C1a-V20	Rivollat et al. 2020

Earth Sciences	Master ID	Region	Country	Culture 2	Location	Death	Mutation	Reference
	I4064	Mediterranean	Italy	Neolithic	Sicily, Fossato di Stretto Partana	6725	C1a-V20	Fernandes et al. 2020
	I1899	Eastern Europe	Hungary	Neolithic	Veszprém, Jutasi út	6380	C1a-V20	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	N20	Eastern Europe	Poland	Neolithic	Pikutkowo	5462	C1a-V20	Fernandes et al. 2018; Reich Dataset V42.4 (2020)

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Supplementary Tables for Chapter Seven and Haplogroup C2-M217



Supplementary Table 7.1. Contemporary Distribution of Haplogroup C2-M217.

Region	Language Group	Language Family	Population	Location	Sample Size	C2-M217	Reference
Central Asia							
	Altaic						
		Turkic	Kazakhs	Kazakhstan	28	92.9%	Abilev et al. 2012
		Turkic	Kazakh (Kazaly)	Kazakhstan	81	67.9%	Zhabagin et al. 2017
		Turkic	Kazakh (Arys)	Kazakhstan	119	67.2%	Zhabagin et al. 2017
		Turkic	Kazakhs	Kazakhstan	20	65.0%	Abilev et al. 2012
		Turkic	Kazakhs	Kazakhstan	9	55.6%	Abilev et al. 2012
		Turkic	Kazakh (Shymkent)	Kazakhstan	55	43.6%	Zhabagin et al. 2017
		Turkic	Uzbeks	Afghanistan	17	41.2%	Haber et al. 2012
		Turkic	Karakalpak	Uzbekistan	100	28.0%	Zhabagin et al. 2017
		Turkic	Kazakh (Zhanakorgan)	Kazakhstan	94	27.7%	Zhabagin et al. 2017
		Turkic	Kyrgyz	Kyrgyzstan	132	19.6%	Di Cristofaro et al. 2013
		Turkic	Uyghurs	Kazakstan, Almaty, Lavar	33	18.2%	Zerjal et al. 2002; Zerjal et al. 2003
		Turkic	Uzbek (Fergana)	Uzbekistan	67	17.9%	Zhabagin et al. 2017
		Mongolic	Sart-Kalmak	Kyrgyzstan	61	13.1%	Balinova et al. 2019
		Turkic	Uzbek (Xorezm)	Uzbekistan	98	10.2%	Zhabagin et al. 2017
		Turkic	Kyrgyz	Kyrgyzstan, Central Kyrgyzstan	41	8.0%	Zerjal et al. 2002; Zerjal et al. 2003
		Turkic	Uzbek (Tashkent)	Uzbekistan	52	7.7%	Zhabagin et al. 2017
		Turkic	Uzbeks	Afghanistan	122	4.1%	Di Cristofaro et al. 2013

Region	Language Group	Language Family	Population	Location	Sample Size	C-M217	Reference
		Turkic	Turkmen (Xo'jayli)	Uzbekistan	62	1.6%	Zhabagin et al. 2017
		Turkic	Turkmen-Jawzjan	Afghanistan	74	1.4%	Di Cristofaro et al. 2013
	Chinese						
		Sino-Tibetan	Dungans	Kyrgyzstan	12	25.0%	Di Cristofaro et al. 2013
		Sino-Tibetan	Dungan	Uzbekistan	31	6.5%	Zhabagin et al. 2017
	Indo-Iranian						
		Indo-European	Hazara	Afghanistan	60	33.3%	Haber et al. 2012
		Indo-European	Hazara	Afghanistan	69	33.3%	Di Cristofaro et al. 2013
		Indo-European	Tajiks	Afghanistan	142	9.2%	Di Cristofaro et al. 2013
		Indo-European	Tajiks	Tajikistan, Penjikent	22	9.1%	Zerjal et al. 2002; Zerjal et al. 2003
		Indo-European	Tajiks	Afghanistan	56	3.6%	Haber et al. 2012
		Indo-European	Pashtuns (Pathans)	Afghanistan	49	2.0%	Haber et al. 2012
East Asia							
	Ainu Isolate						
		Isolate	Ainu	Hokkaido, Japan	4	25.0%	Hammer et al. 2006b
		Isolate	Ainu	Hokkaido, Japan	16	12.5%	Tajima et al. 2004
	Altaic						
		Turkic	Kazakhs	China, Gansu, Akesai	94	84.0%	Wei et al. 2017
		Mongolic	Mongol Khoshut	Mongolia	18	77.8%	Balinova et al. 2019
		Turkic	Kazakhs	China, Xinjiang, Hami, Barkol	104	76.9%	Wei et al. 2017

Region	Language Group	Language Family	Population	Location	Sample Size	C-M217	Reference
		Turkic	Kazakhs	China, Xingjiang	53	75.5%	Zhong et al. 2010
		Turkic	Kazakhs	China, Xinjiang ,Changji, Mori	63	74.6%	Wei et al. 2017
		Turkic	Kazakhs	China, Xinjiang, Changji, Hutubi	22	72.7%	Wei et al. 2017
		Mongolic	Mongol Derbet	Mongolia	40	72.5%	Balinova et al. 2019
		Mongolic	Mongols	China, Inner Mongolian	22	68.2%	Zhong et al. 2010
		Mongolic	Mongol Torgut	Mongolia	47	66.0%	Balinova et al. 2019
		Mongolic	Mongols	Mongolia	46	65.2%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Mongolic	Mongols	China, Inner Mongolia, Hailar	61	63.9%	Wei et al. 2017
		Mongolic	Buryats	China, Inner Mongolia, Hailar	26	61.5%	Wei et al. 2017
		Tungusic	Oroqen	China, Inner Mongolia	31	61.3%	Zerjal et al. 2003; Xue et al. 2006
		Mongolic	Mongols	China, Inner Mongolia	22	54.5%	Zhong et al. 2011
		Mongolic	Mongols	Mongolia, Ulaanbaatar	65	53.8%	Zerjal et al. 2003; Xue et al. 2006
		Tungusic	Evenki	China, Inner Mongolia	26	53.8%	Zerjal et al. 2003; Xue et al. 2006
		Turkic	Kazakhs	China, Xinjiang, Yili, Tekes	19	52.6%	Wei et al. 2017
		Mongolic	Mongols	Mongolia	160	51.3%	Di Cristofaro et al. 2013
		Mongolic	Xinjiang Kalmyk	China	12	50.0%	Balinova et al. 2019
		Turkic	Kyrgyz	China, Xingjiang	4	50.0%	Zhong et al. 2011
		Mongolic	Mongols	Mongolia	45	46.7%	Kim et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	C-M217	Reference
		Mongolic	Mongols	China, Inner Mongolia	45	46.7%	Zerjal et al. 2003; Xue et al. 2006
		Tungusic	Manchu (Man)	China, Heilongjiang	24	45.8%	Zhong et al. 2011
		Mongolic	Buryats	China, Inner Mongolia	36	44.4%	Kim et al. 2011
		Tungusic	Manchu (Man)	China, Jilin, Jiutai	146	41.7%	Wei et al. 2017
		Turkic	Kazakhs	China, Xinjiang, Yili, Zhaosu	29	37.9%	Wei et al. 2017
		Tungusic	Xibe	China, Xingjiang	61	36.1%	Zhong et al. 2011
		Tungusic	Manchu (Man)	China, Liaoning	109	33.0%	Zhong et al. 2010
		Mongolic	Mongols	China, Inner Mongolia	46	32.6%	Wei et al. 2017
		Mongolic	Daur	China, Heilongjiang	39	30.8%	Zerjal et al. 2003; Xue et al. 2006
		Mongolic	Mongols	China, Qinghai, Delingha	129	27.1%	Wei et al. 2017
		Turkic	Tuvans	China, Xinjiang, Altay	148	27.0%	Wei et al. 2017
		Mongolic	Xibe	China, Yili, Xinjiang	41	26.8%	Zerjal et al. 2003; Xue et al. 2006
		Tungusic	Manchu (Man)	China	30	26.7%	Kim et al. 2011
		Turkic	Kyrgyz	Northwestern China	241	26.6%	Guo et al. 2020
		Mongolic	Buryats	China, Inner Mongolia, Hailar	54	25.9%	Wei et al. 2017
		Tungusic	Manchu (Man)	China, Dalian	35	25.7%	Zerjal et al. 2003; Xue et al. 2006
		Tungusic	Manchu (Man)	China, Liaoning	43	25.6%	Zhong et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	C-M217	Reference
		Mongolic	Mongols	China, Heilongjiang	12	25.0%	Zhong et al. 2011
		Tungusic	Nanai (Hezhe)	China, Heilongjiang	45	22.2%	Zerjal et al. 2003; Xue et al. 2006
		Turkic	Yugurs	China, Gansu, Sunan	141	21.3%	Wei et al. 2017
		Tungusic	Manchu (Man)	China, Liaoning	66	21.2%	Zhong et al. 2011
		Tungusic	Manchu (Man)	China, Inner Mongolia, Chifeng	39	20.5%	Wei et al. 2017
		Mongolic	Mongols	China, Inner Mongolia, Chifeng	67	14.9%	Wei et al. 2017
		Turkic	Kazakhs	China, Xinjiang, Yili, Xinyuan	43	14.0%	Wei et al. 2017
		Turkic	Kyrgyz	China, Xinjiang	50	14.0%	Wei et al. 2017
		Mongolic	Monguor (Tu)	China, Qinghai, Huzhu	121	13.2%	Wei et al. 2017
		Turkic	Hui	China, Tianjin	46	13.0%	Wei et al. 2017
		Tungusic	Evenki	China, Inner Mongolia	31	12.9%	Zhong et al. 2011
		Turkic	Hui	China, Haiyuan, Ningxia	35	11.4%	Zerjal et al. 2003; Xue et al. 2006
		Turkic	Uyghurs	China, Urumqi	31	9.7%	Zerjal et al. 2003; Xue et al. 2006
		Turkic	Uyghurs	China, Xingjiang	50	8.0%	Zhong et al. 2011
		Turkic	Uyghurs	China, Yili, Xinjiang	39	7.7%	Zerjal et al. 2003; Xue et al. 2006
		Turkic	Uyghurs	China, Xingjiang	71	7.0%	Zhong et al. 2011
		Turkic	Uyghurs	China, Xingjiang	48	6.3%	Zhong et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	C-M217	Reference
		Turkic	Salar	China, Qinghai, Xunhua	135	5.9%	Wei et al. 2017
		Turkic	Uyghurs	China, Xinjiang	187	5.9%	Zhong et al. 2010
		Mongolic	Mongol Tsaatan	Mongolia	23	4.3%	Balinova et al. 2019
	Austro-Asiatic						
		Austro-Asiatic	Blang (Bulang)	China, Yunnan	11	27.3%	Zhong et al. 2011
		Austro-Asiatic	Nyahkur	Northeast Thailand	21	24.0%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Western Thailand	15	14.0%	Kutanan et al. 2019
		Austro-Asiatic	Vietnamese	Vietnam	48	12.5%	Kim et al. 2011
		Austro-Asiatic	Kinh	Vietnam	50	8.0%	Macholdt et al. 2019
		Austro-Asiatic	Wa	China, Yunnan	16	6.3%	Zhong et al. 2011
		Austro-Asiatic	Blang	North Thailand	18	6.0%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Western Thailand	18	6.0%	Kutanan et al. 2019
		Austro-Asiatic	Gin (Jing)	China, Guangxi	45	4.4%	Zhong et al. 2011
	Chinese						
		Sino-Tibetan	Han	China, Shangdong, Zoucheng	32	31.3%	Wei et al. 2017
		Sino-Tibetan	Han	China, Jilin	27	29.6%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Shangdong, Rizhao	33	24.2%	Wei et al. 2017
		Sino-Tibetan	Han	China, Henan	21	23.8%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Shaanxi, Xi'an	34	23.8%	Kim et al. 2011
		Sino-Tibetan	Han	China, Shanghai	17	23.5%	Zhong et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	C-M217	Reference
		Sino-Tibetan	Han	China, Shangdong, Qingzhou	22	22.7%	Wei et al. 2017
		Sino-Tibetan	Han	China, Liaoning	40	22.5%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Yunnan	14	21.4%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Gansu	29	20.7%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Gansu	34	20.6%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Gansu	34	20.6%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Shangdong, Zhanhua	30	20.0%	Wei et al. 2017
		Sino-Tibetan	Han	China, Gansu, Zhangye	5	20.0%	Wei et al. 2017
		Sino-Tibetan	Han	China, Shangdong, Ningjing	45	20.0%	Wei et al. 2017
		Sino-Tibetan	Han	China, Ganshu, LanZhou	30	20.0%	Zerjal et al. 2003; Xue et al. 2006
		Sino-Tibetan	Han	China, Shanxi	56	19.6%	Zhong et al. 2011
		Sino-Tibetan	Hui	China, Ningxia	62	17.7%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Shangdong, Guangrao	23	17.4%	Wei et al. 2017
		Sino-Tibetan	Han	China, Northeast	98	17.3%	Wei et al. 2017
		Sino-Tibetan	Han	China, Shangdong, Zhangqiu	48	16.7%	Wei et al. 2017
		Sino-Tibetan	Han	China, Shangdong, Yanzhou	24	16.7%	Wei et al. 2017

Region	Language Group	Language Family	Population	Location	Sample Size	C-M217	Reference
		Sino-Tibetan	Han	China, Guizhou	18	16.7%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Yunnan	18	16.7%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Heilongjiang	67	16.4%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Yunnan	19	15.8%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Gansu, Wuwei	64	15.6%	Wei et al. 2017
		Sino-Tibetan	Han	China, Shandong	52	15.4%	Zhong et al. 2011
		Sino-Tibetan	Han	Jiangsu	39	15.4%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Gansu	20	15.0%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Heilongjiang, Wuchang	27	14.8%	Wei et al. 2017
		Sino-Tibetan	Han	China, HeiLongJiang	35	14.3%	Zerjal et al. 2003; Xue et al. 2006
		Sino-Tibetan	Han	China, Yunnan	14	14.3%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Heilongjiang	57	14.0%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Gansu, Pingliang	203	13.8%	Wei et al. 2017
		Sino-Tibetan	Han	China, Shangdong, Dezhou	51	13.7%	Wei et al. 2017
		Sino-Tibetan	Han	China, Anhui	52	13.5%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Gansu, Lanzhou	83	13.3%	Wei et al. 2017
		Sino-Tibetan	Han	China, Gansu, Qingyang	61	13.1%	Wei et al. 2017
		Sino-Tibetan	Han	China, Guangdong	31	12.9%	Zhong et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	C-M217	Reference
		Sino-Tibetan	Han	China, Gansu, Dingxi	166	12.7%	Wei et al. 2017
		Sino-Tibetan	Han	China, Jilin	24	12.5%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Gansu	16	12.5%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Shangdong, Qihe	25	12.0%	Wei et al. 2017
		Sino-Tibetan	Han	China, Shangdong, lijing	59	11.9%	Wei et al. 2017
		Sino-Tibetan	Han	China, SiChuan, ChengDu	34	11.8%	Zerjal et al. 2003; Xue et al. 2006
		Sino-Tibetan	Han	China, North	223	11.7%	Wei et al. 2017
		Sino-Tibetan	Han	China, Shangdong, linshu	53	11.3%	Wei et al. 2017
		Sino-Tibetan	Han	China, Yunnan	18	11.1%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Shannxi	56	10.7%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Shangdong, Shanghe	48	10.4%	Wei et al. 2017
		Sino-Tibetan	Han	China, Gansu	39	10.3%	Zhong et al. 2011
		Sino-Tibetan	Hui	China, Yunnan	10	10.0%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Guizhou	10	10.0%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Shandong	40	10.0%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Shangdong, Cangshan	52	9.6%	Wei et al. 2017
		Sino-Tibetan	Han	China, Fujian	43	9.3%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Shangdong, Penglai	87	9.2%	Wei et al. 2017

Region	Language Group	Language Family	Population	Location	Sample Size	C-M217	Reference
		Sino-Tibetan	Han	China, Gansu, Tianshui	353	9.1%	Wei et al. 2017
		Sino-Tibetan	Han	China, Jilin	33	9.1%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Guizhou	11	9.1%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Guangdong, Meixian	35	8.6%	Zerjal et al. 2003; Xue et al. 2006
		Sino-Tibetan	Han	China, Southwest	35	8.6%	Wei et al. 2017
		Sino-Tibetan	Han	China, Fujian	24	8.3%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Yunnan	60	8.3%	Kim et al. 2011
		Sino-Tibetan	Han	China, Shandong, Muping	48	8.3%	Wei et al. 2017
		Sino-Tibetan	Han	China, Gansu, Longnan	121	8.3%	Wei et al. 2017
		Sino-Tibetan	Han	China, Gansu	49	8.2%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Gansu, Baiyin	101	7.9%	Wei et al. 2017
		Sino-Tibetan	Han	China, Sichuan	38	7.9%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Shandong, Dongming	40	7.5%	Wei et al. 2017
		Sino-Tibetan	Han	China, Guizhou	107	7.5%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Guizhou	27	7.4%	Zhong et al. 2011
		Sino-Tibetan	Han	China, South	123	7.3%	Wei et al. 2017
		Sino-Tibetan	Han	China, Shandong, Yiyuan	28	7.1%	Wei et al. 2017

Region	Language Group	Language Family	Population	Location	Sample Size	C-M217	Reference
		Sino-Tibetan	Han	China, Shangdong, Chengwu	14	7.1%	Wei et al. 2017
		Sino-Tibetan	Han	China, Hubei	57	7.0%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Guizhou	58	6.9%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Henan	45	6.7%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Zhejiang	30	6.7%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Yili,Xinjiang	32	6.3%	Zerjal et al. 2003; Xue et al. 2006
		Sino-Tibetan	Han	China, Northwest	49	6.1%	Wei et al. 2017
		Sino-Tibetan	Han	China, Beijing	51	5.9%	Kim et al. 2011
		Sino-Tibetan	Han	China, Zhejiang	55	5.5%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Guangxi, Baise	19	5.3%	Wei et al. 2017
		Sino-Tibetan	Han	China, Henan, Weishi	19	5.3%	Wei et al. 2017
		Sino-Tibetan	Han	China, Shangdong, Feicheng	21	4.8%	Wei et al. 2017
		Sino-Tibetan	Han	China, Shangdong, Zhitai	43	4.7%	Wei et al. 2017
		Sino-Tibetan	Han	China, Chongqing	43	4.7%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Shandong	23	4.3%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Hunan	23	4.3%	Zhong et al. 2011
		Sino-Tibetan	Han	China, East	586	4.3%	Wei et al. 2017
		Sino-Tibetan	Han	China, Sichuan	24	4.2%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Yunnan	53	3.8%	Zhong et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	C-M217	Reference
		Sino-Tibetan	Han	China, Sichuan, Suining	108	3.7%	Wei et al. 2017
		Sino-Tibetan	Han	China, Shangdong, Gaotang	29	3.4%	Wei et al. 2017
		Sino-Tibetan	Han	China, Guangdong	33	3.0%	Zhong et al. 2011
		Sino-Tibetan	Han	China, Shangdong, Fei	35	2.9%	Wei et al. 2017
	Hmong-Mien						
		Hmong-Mien	Miao	China, Guizhou	19	21.1%	Zhong et al. 2011
		Hmong-Mien	Hmong	Vietnam	41	19.5%	Macholdt et al. 2019
		Hmong-Mien	Yao	China, Guangxi	55	18.2%	Zhong et al. 2011
		Hmong-Mien	Miao	China, Yunnan	7	14.3%	Zhong et al. 2011
		Hmong-Mien	She	China, Fujian	45	6.7%	Zhong et al. 2011
		Hmong-Mien	Miao	China, Guizhou	17	5.9%	Zhong et al. 2011
		Hmong-Mien	Yao	China, Guangxi	25	4.0%	Zhong et al. 2011
		Hmong-Mien	Yao	China, Guangdong	27	3.7%	Zhong et al. 2011
		Hmong-Mien	She	China, Zhejiang	34	2.9%	Zerjal et al. 2003; Xue et al. 2006
		Hmong-Mien	Yao	China, Guangdong, Liannan	35	2.9%	Zerjal et al. 2003; Xue et al. 2006
		Hmong-Mien	Miao	China, Guizhou	45	2.2%	Zhong et al. 2011
	Japonic						
		Japonic	Japanese	Japan	157	7.0%	Kim et al. 2011
		Japonic	Japanese	Japan	2390	6.1%	Sato et al. 2014
		Japonic	Japanese	Japan	263	3.0%	Naitoh et al. 2013
		Japonic	Japanese	Japan	47	2.1%	Xue et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	C-M217	Reference
Koreanic							
		Koreanic	Korean	North Korea	19	26.3%	Zhong et al. 2011
		Koreanic	Korean	China, Jilin, Dunhua, Jiutai	191	16.8%	Wei et al. 2017
		Koreanic	Korean	Korea	43	16.3%	Xue et al. 2006
		Koreanic	Korean	Korea	706	12.6%	Kwon et al. 2015
		Koreanic	Korean	Korea	506	12.3%	Kim et al. 2011
		Koreanic	Korean	China, Jinlin	25	12.0%	Xue et al. 2006
		Koreanic	Korean	Korea	52	9.6%	Malyarchuk et al. 2010
		Koreanic	Korean	China, Heilongjiang	11	9.1%	Zhong et al. 2011
		Koreanic	Korean	China, Jilin	34	5.9%	Zhong et al. 2011
Tai-Kadai							
		Tai-Kadai	Dong	China, Hunan	27	29.6%	Zhong et al. 2011
		Tai-Kadai	Dong	China, Hunan	45	22.2%	Zhong et al. 2011
		Tai-Kadai	Gelao (Mulao)	China, Guangxi	11	18.2%	Zhong et al. 2011
		Tai-Kadai	Sui	China, Guizhou	29	13.8%	Zhong et al. 2011
		Tai-Kadai	Central Thai	Central Thailand	19	10.0%	Kutanan et al. 2019
		Tai-Kadai	Yuan	Central Thailand	12	8.0%	Kutanan et al. 2019
		Tai-Kadai	Khon Mueang	North Thailand	13	8.0%	Kutanan et al. 2019
		Tai-Kadai	Yuan	North Thailand	14	7.0%	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	18	6.0%	Kutanan et al. 2019
		Tai-Kadai	Dong	China, Guangxi	17	5.9%	Zhong et al. 2011
		Tai-Kadai	Dai	China, Yunnan	18	5.6%	Zhong et al. 2011
		Tai-Kadai	Central Thai	Central Thailand	19	5.0%	Kutanan et al. 2019

Region	Language Group	Language Family	Population	Location	Sample Size	C-M217	Reference
		Tai-Kadai	Laotian	Laos	20	5.0%	Kutanan et al. 2019
		Tai-Kadai	Laotian	Laos	20	5.0%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	19	5.0%	Kutanan et al. 2019
		Tai-Kadai	Gelao (Mulao)	China, Guizhou	21	4.8%	Zhong et al. 2011
		Tai-Kadai	Bouyei (Buyi)	China, Guizhou	54	3.7%	Zhong et al. 2011
		Tai-Kadai	Bouyei (Buyi)	China, Guizhou	34	2.9%	Zhong et al. 2011
		Tai-Kadai	Thai	Thailand	40	2.5%	Kim et al. 2011
		Tai-Kadai	Zhuang	China, Guangxi	61	1.6%	Zhong et al. 2011
	Tibeto-Burman						
		Sino-Tibetan	Tujia	China, Hubei	26	30.8%	Zhong et al. 2011
		Sino-Tibetan	Hani	China, Yunnan	60	21.7%	Zhong et al. 2011
		Sino-Tibetan	Tujia	China, Guizhou	33	21.2%	Zhong et al. 2011
		Sino-Tibetan	Hani	China, Yunnan	34	17.6%	Zerjal et al. 2003; Xue et al. 2006
		Sino-Tibetan	Yi (Yizu)	China, Yunnan	19	15.8%	Zhong et al. 2011
		Sino-Tibetan	Yi (Yizu)	China, Sichuan	24	12.5%	Zhong et al. 2011
		Sino-Tibetan	Hanhi	Vietnam	33	12.1%	Macholdt et al. 2019
		Sino-Tibetan	Sila	Vietnam	29	10.3%	Macholdt et al. 2019
		Sino-Tibetan	Naxi	China, Yunnan	12	8.3%	Zhong et al. 2011
		Sino-Tibetan	Tibetan	China, Xizang	222	8.1%	Zhong et al. 2010
		Sino-Tibetan	Tibetan	China, Qinghai	40	7.5%	Zhong et al. 2011
		Sino-Tibetan	Yi (Yizu)	China, Yunnan	15	6.7%	Zhong et al. 2011
		Sino-Tibetan	Tibetan	China, Xizang	31	3.2%	Zhong et al. 2011
		Sino-Tibetan	Tibetan	China, Xizang	191	3.1%	Zhong et al. 2011
		Sino-Tibetan	Bai	China, Yunnan	34	2.9%	Zhong et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	C-M217	Reference
		Sino-Tibetan	Deng	China, Xizang	90	1.1%	Kang et al. 2012
Eastern Europe							
	Altaic						
		Mongolic	Kalmyk Buzava	Russia	52	65.4%	Balinova et al. 2019
		Mongolic	Kalmyk Derbet	Russia	69	60.8%	Balinova et al. 2019
		Mongolic	Kalmyk Torgut	Russia	58	55.1%	Balinova et al. 2019
		Mongolic	Kalmyk Khoshut	Russia	28	53.6%	Balinova et al. 2019
	Slavic						
		Indo-European	Russian	Russia	406	0.7%	Derenko et al. 2007a; Malyarchuk et al. 2010
Island Southeast Asia							
	Austronesian						
		Austronesian	Indonesian	Indonesia	37	2.7%	Kim et al. 2011
		Austronesian	Filipinos	Philippines	64	1.6%	Kim et al. 2011
Middle East							
	Indo-Iranian						
		Indo-European	East Azeri	Iran	21	4.8%	Di Cristofaro et al. 2013
North America							
	Algic						
		Algic	Chippewa	United States	8	50.0%	Bolnick et al. 2006
		Algic	Cheyenne	United States	34	20.6%	Zegura et al. 2004
		Algic	Chippewa	Canada	18	16.7%	Bortolini et al. 2003
	Eskimo-Aleut						
		Eskimo-Aleut	Eskimos	Greenland	29	6.9%	Bosch et al. 2003
		Eskimo-Aleut	Eskimos	Canada	32	3.1%	Dulik et al. 2012b

Region	Language Group	Language Family	Population	Location	Sample Size	C-M217	Reference
	Eyak-Athabaskan						
		Eyak-Athabaskan	Tanana	Alaska, United States	10	50.0%	Zegura et al. 2004
		Eyak-Athabaskan	Gwich'in (Kutchin)	Canada	17	47.1%	Dulik et al. 2012b
		Eyak-Athabaskan	Dogrib	Canada	30	43.3%	Dulik et al. 2012b
		Eyak-Athabaskan	Apache	United States	89	15.7%	Zegura et al. 2004
		Eyak-Athabaskan	Apache	Arizona, United States	22	9.1%	Malhi et al. 2008
		Eyak-Athabaskan	Tlingit	Southeastern Alaska, USA	11	9.1%	Schurr et al. 2012
		Eyak-Athabaskan	Navajo	United States	73	1.4%	Zegura et al. 2004
	Iroquoian						
		Iroquoian	Red Cross Cherokee	United States	17	5.9%	Bolnick et al. 2006
	Muskogean						
		Muskogean	Creek	United States	10	10.0%	Bolnick et al. 2006
	Siouan-Catawban						
		Siouan-Catawban	Sioux	United States	16	31.3%	Zegura et al. 2004
		Siouan-Catawban	Sioux	United States	18	22.2%	Bolnick et al. 2006
Northern Eurasia							
	Altaic						
		Tungusic	Evenki	Russia, Krasnoyarskiy	40	70.0%	Pakendorf et al. 2006
		Mongolic	Buryats	Russia, Buryatia	217	68.7%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Mongolic	Buryats	Russia, China	86	68.6%	Kharkov et al. 2014

Region	Language Group	Language Family	Population	Location	Sample Size	C-M217	Reference
		Tungusic	Evenki	Russia, Sakha	9	66.7%	Pakendorf et al. 2007
		Mongolic	Kalmyks	Russia, Buryatia	91	62.6%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Turkic	Kazakhs	Russia, Altai	36	58.3%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Tungusic	Khamnigans	Russia, Chitinskaya?	51	54.9%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Tungusic	Even	Russia, Sakha	24	54.2%	Pakendorf et al. 2007
		Turkic	Kazakhs	Russia, Altai Republic	89	54.0%	Dulik et al. 2011
		Turkic	Sojots	Russia, Buryatia	28	53.6%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Tungusic	Evenki	Russia, Krasnoyarskiy	41	48.8%	Derenko et al. 2007a
		Mongolic	Buryats	Russia, China	58	39.7%	Kharkov et al. 2014
		Tungusic	Even	Russia, Siberia	63	34.0%	Malyarchuk et al. 2010
		Turkic	Altai (Altaians, Altay)	Russia, Altai Republic	120	20.0%	Dulik et al. 2012a
		Turkic	Yakut	Russia, Sakha	10	20.0%	Malyarchuk et al. 2010
		Mongolic	Buryats	Russia, China	138	18.8%	Kharkov et al. 2014
		Turkic	Kazakhs	Russia, Altai Republic	30	17.0%	Dulik et al. 2011
		Turkic	Altai (Altaians, Altay)	Russia, Altai	89	15.7%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Tungusic	Evenki	Russia, Sakha	33	15.2%	Pakendorf et al. 2006
		Turkic	Tuvans	Russia, Tuva	55	14.5%	Pakendorf et al. 2006
		Turkic	Teleuts	Russia, Altayskiy, Biysk	44	11.4%	Derenko et al. 2007a; Malyarchuk et al. 2010

Region	Language Group	Language Family	Population	Location	Sample Size	C-M217	Reference
		Turkic	Tuvans	Russia, Tuva	108	11.1%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Turkic	Tozhu Tuvan	Russia	46	8.6%	Balinova et al. 2019
		Turkic	Todjins	Russia, Tuva	26	7.7%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Turkic	Khakas	Russia, Khakassia Republic, Topanov	29	6.9%	Kharkov et al. 2011
		Turkic	Yakut	Russia, Sakha	32	6.3%	Pakendorf et al. 2006
		Turkic	Teleuts	Russia, Altai Republic, Kemerovo oblast	35	5.7%	Kharkov et al. 2009
		Tungusic	Even	Russia, Sakha	22	4.5%	Pakendorf et al. 2007
		Turkic	Shors	Russia, Kemerovo	38	2.6%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Turkic	Yakut	Russia, Sakha	47	2.1%	Pakendorf et al. 2006
		Turkic	Yakut	Russia, Sakha	49	2.0%	Pakendorf et al. 2006
		Turkic	Khakas	Russia, Khakassia	64	1.6%	Derenko et al. 2007a; Malyarchuk et al. 2010
	Chukotko- Kamchatkan						
		Chukotko- Kamchatkan	Koryaks	Russia, Koryanskiy	39	54.0%	Malyarchuk et al. 2010
	Slavic						
		Indo-European	Russian	Russia, Ryazanskaja	36	2.8%	Fechner et al. 2008
	Yukaghir						
		Yukaghir	Yukaghir	Russia, Sakha	13	30.8%	Pakendorf et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	C-M217	Reference
	Quechuan						
		Quechuan	Kichwa	Ecuador	42	26.2%	Roewer et al. 2013
	Woorani Isolate						
		Isolate	Woorani	Ecuador	40	7.5%	Roewer et al. 2013
South Asia	Burusho Isolate						
		Isolate	Burusho	Pakistan	20	5.0%	Di Cristofaro et al. 2013
	Indo-Iranian						
		Indo-European	Hazara	Pakistan	25	40.0%	Di Cristofaro et al. 2013
		Indo-European	Hazara	Pakistan, Southern Baluchistan	27	25.9%	Qamar et al. 2002; Zerjal et al. 2003
		Indo-European	Pashtuns (Pathans)	Pakistan	20	5.0%	Di Cristofaro et al. 2013

Supplementary Table 7.2. Distribution of Ancient C2-M217 Mutations.

Region	Master ID	Culture	Country	Location	Death	Mutation	Reference
Central Asia							
	I6708	Bronze Age	Kazakhstan	Northeastern Kazakhstan, Kanai Cemetery	4062	C2-M217	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
East Asia							
	MZGM16	Neolithic	China	Miaozigou, Inner Mongolia	5500	C2c-F1067	Ning et al. 2020
	MZGM10-1	Neolithic	China	Miaozigou, Inner Mongolia	5500	C2c-F1067	Ning et al. 2020
	HQHM2	Neolithic	China	Honghe site	4000	C2b-L1373	Cui et al. 2020
	SM-SGDLM27	Neolithic	China	Shengedaliang, Shaanxi	4000	C2c-F1067	Ning et al. 2020
	HJTM107	Neolithic	China	Haojiatai, Yellow River Basin	3900	C2c-F1067	Ning et al. 2020
	91KLM2	Bronze Age	China	Longtoushan	2300	C2b1a1-F3918	Ning et al. 2020
	ZLNR-1	Iron Age	China	Zhalainuoer	1810	C2b1a1-F3918	Ning et al. 2020
Northern Eurasia							
	DA357	Neolithic	Russia	Lokomotiv	7803	C2b-F3918	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
	NEO239	Mesolithic	Russia	Devil's Gate Cave	7556	C2b-L1373	Sikora et al. 2019; Reich Dataset V42.4 (2020)
	NEO249	Eskimo	Russia	Ekven	1964	C2b-F3918	Sikora et al. 2019; Reich Dataset V42.4 (2020)
	NEO253	Eskimo	Russia	Ekven	1746	C2b-L1373	Sikora et al. 2019; Reich Dataset V42.4 (2020)

Region	Master ID	Culture	Country	Location	Death	Mutation	Reference
	I7341	Eskimo	Russia	Chukotka, Bering Strait, Ekven	1100	C2b-F3918	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
	I7340	Eskimo	Russia	Chukotka, Bering Strait, Ekven	1020	C2b-F3918	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
South America							
	Lapa01	Amerindian	Brazil	Lapa do Santo	9880	C2b-L1373	Prosth et al. 2018a; Reich Dataset V42.4 (2020)

Supplementary Table 7.3. The Contemporary Distribution of the C2b-M48 Mutation.

Region	Language Group	Language Family	Population	Location	Sample Size	C2b-M48	Reference
Central Asia							
	Altaic						
		Turkic	Kazakhs	Kazakstan, Almaty, Katon-Karagay	38	63.2%	Zerjal et al. 2002; Zerjal et al. 2003
		Turkic	Kyrgyz	Kyrgyzstan	132	5.3%	Di Cristofaro et al. 2013
		Turkic	Kazakhs	Kazakhstan	20	5.0%	Abilev et al. 2012
		Turkic	Kyrgyz	Kyrgyzstan, Central Kyrgyzstan	41	5.0%	Zerjal et al. 2002; Zerjal et al. 2003
		Mongolic	Sart-Kalmak	Kyrgyzstan	61	4.9%	Balinova et al. 2019
		Turkic	Uyghurs	Kazakstan, Almaty, Lavar	33	3.0%	Zerjal et al. 2002; Zerjal et al. 2003
	Indo-Iranian						
		Indo-European	Tajiks	Tajikistan, Penjikent	22	9.1%	Zerjal et al. 2002; Zerjal et al. 2003
East Asia							
	Altaic						
		Mongolic	Mongol	Mongolia	18	77.8%	Balinova et al. 2019
			Khoshut				
		Mongolic	Mongol	Mongolia	40	55.0%	Balinova et al. 2019
			Derbet				
		Tungusic	Oroqen	China, Inner Mongolia	31	41.9%	Zerjal et al. 2003; Xue et al. 2006
		Tungusic	Manchu	China, Jilin, Jiutai	146	41.1%	Wei et al. 2017

Region	Language Group	Language Family	Population	Location	Sample Size	C2b-M48	Reference
		Mongolic	Mongol Torgut	Mongolia	47	34.1%	Balinova et al. 2019
		Tungusic	Evenki	China, Inner Mongolia	26	26.9%	Zerjal et al. 2003; Xue et al. 2006
		Mongolic	Xinjiang Kalmyk	China	12	25.0%	Balinova et al. 2019
		Mongolic	Mongols	Mongolia	160	23.1%	Di Cristofaro et al. 2013
		Turkic	Tuvans	China, Xinjiang, Altay	148	22.3%	Wei et al. 2017
		Mongolic	Mongols	Mongolia, Ulaanbaatar	65	20.0%	Zerjal et al. 2003; Xue et al. 2006
		Mongolic	Mongols	China, Inner Mongolian	22	18.2%	Zhong et al. 2010
		Mongolic	Mongols	China, Qinghai, Delingha	129	13.2%	Wei et al. 2017
		Tungusic	Nanai (Hezhe)	China, Heilongjiang	45	11.1%	Zerjal et al. 2003; Xue et al. 2006
		Mongolic	Mongols	Mongolia	46	10.9%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Turkic	Uyghurs	China, Urumqi	31	9.7%	Zerjal et al. 2003; Xue et al. 2006
		Mongolic	Mongols	China, Inner Mongolia	45	8.9%	Zerjal et al. 2003; Xue et al. 2006
		Turkic	Uyghurs	China, Yili,Xinjiang	39	7.7%	Zerjal et al. 2003; Xue et al. 2006
		Mongolic	Xibe	China, Yili,Xinjiang	41	4.9%	Zerjal et al. 2003; Xue et al. 2006
		Mongolic	Mongol Tsaatan	Mongolia	23	4.3%	Balinova et al. 2019
		Tungusic	Manchu	China, Liaoning	109	3.7%	Zhong et al. 2010

Region	Language Group	Language Family	Population	Location	Sample Size	C2b-M48	Reference
Eastern Europe		Turkic	Kazakhs	China, Gansu, Akesai	94	3.2%	Wei et al. 2017
		Mongolic	Mongols	China, Inner Mongolia, Chifeng	67	3.0%	Wei et al. 2017
		Tungusic	Manchu	China, Dalian	35	2.9%	Zerjal et al. 2003; Xue et al. 2006
		Turkic	Kyrgyz	China, Xinjiang	50	2.0%	Wei et al. 2017
		Turkic	Yugurs	China, Gansu, Sunan	141	0.7%	Wei et al. 2017
		Turkic	Uyghurs	China, Xinjiang	187	0.5%	Zhong et al. 2010
		Chinese					
		Sino-Tibetan	Han	China, Gansu, Wuwei	64	1.6%	Wei et al. 2017
		Sino-Tibetan	Han	China, Gansu, Dingxi	166	0.6%	Wei et al. 2017
		Tibeto-Burman					
	Sino-Tibetan	Tibetan	China, Xizang	222	1.8%	Zhong et al. 2010	
	Altaic						
	Mongolic	Kalmyk	Russia	28	50.0%	Balinova et al. 2019	
		Khoshut					
	Mongolic	Kalmyk Buzava	Russia	52	48.1%	Balinova et al. 2019	
	Mongolic	Kalmyks	Russia, Buryatia	91	45.1%	Derenko et al. 2007a; Malyarchuk et al. 2010	
	Mongolic	Kalmyk Torgut	Russia	58	43.1%	Balinova et al. 2019	
	Mongolic	Kalmyks	Elista, Russia	99	37.4%	Nasidze et al. 2005; Roewer et al. 2007	

Region	Language Group	Language Family	Population	Location	Sample Size	C2b-M48	Reference
Northern Eurasia	Slavic	Mongolic	Kalmyk Derbet	Russia	69	31.8%	Balinova et al. 2019
		Indo-European	Russian	Russia	406	0.2%	Derenko et al. 2007a; Malyarchuk et al. 2010
Northern Eurasia	Altaic	Tungusic	Evenki	Russia, Krasnoyarskiy	40	70.0%	Pakendorf et al. 2006
		Tungusic	Evenki	Russia, Sakha	9	66.7%	Pakendorf et al. 2007
		Tungusic	Even	Russia, Sakha	24	50.0%	Pakendorf et al. 2007
		Tungusic	Evenki	Russia, Krasnoyarskiy	41	43.6%	Derenko et al. 2007a
		Turkic	Kazakhs	Russia, Altai	36	41.7%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Turkic	Kazakhs	Russia, Altai Republic	89	40.0%	Dulik et al. 2011
		Tungusic	Evenki	Russia, Sakha	33	15.2%	Pakendorf et al. 2006
		Turkic	Tuvans	Russia, Tuva	55	9.1%	Pakendorf et al. 2006
		Turkic	Todjins	Russia, Tuva	26	7.7%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Turkic	Kazakhs	Russia, Altai Republic	30	7.0%	Dulik et al. 2011
		Mongolic	Buryats	Russia, Buryatia	217	6.0%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Turkic	Altai (Altaians, Altay)	Russia, Altai	89	5.6%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Turkic	Tuvans	Russia, Tuva	108	5.6%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Tungusic	Even	Russia, Sakha	22	4.5%	Pakendorf et al. 2007

Region	Language Group	Language Family	Population	Location	Sample Size	C2b-M48	Reference
		Mongolic	Buryats	Russia	138	4.3%	Kharkov et al. 2014
		Turkic	Tozhu Tuvan	Russia	46	4.3%	Balinova et al. 2019
		Turkic	Altai (Altaians, Altay)	Russia, Altai Republic	120	4.2%	Dulik et al. 2012a
		Mongolic	Buryats	Russia, China	86	3.5%	Kharkov et al. 2014
		Mongolic	Buryats	Russia, China	58	3.4%	Kharkov et al. 2014
		Turkic	Yakut	Russia, Sakha	32	3.1%	Pakendorf et al. 2006
	Yukaghir						
		Yukaghir	Yukaghir	Russia, Sakha	13	23.1%	Pakendorf et al. 2006

Supplementary Table 7.4. Contemporary Distribution of the C2b-F1918 Mutation.

Region	Language Group	Language Family	Population	Location	Sample Size	C1b-F1918	Reference
Central Asia							
	Altaic						
		Turkic	Kazakhs	Kazakhstan	28	89.3%	Abilev et al. 2012
		Turkic	Kazakhs	Kazakhstan	20	55.0%	Abilev et al. 2012
		Turkic	Kazakhs	Kazakhstan	9	44.4%	Abilev et al. 2012
		Turkic	Kazakhs	Kazakhstan, Taraz	181	36.5%	Roewer et al. 2007
		Turkic	Uzbeks	Afghanistan	17	35.3%	Haber et al. 2012
		Turkic	Kazakhs	Kazakhstan	99	24.2%	Tarlykov et al. 2013
		Turkic	Karakalpaks	Uzbekistan	51	23.5%	Zhaksylyk and Daulet 2012
		Turkic	Uyghurs	Kazakstan, Almaty, Lavar	33	15.2%	Zerjal et al. 2002; Zerjal et al. 2003
		Turkic	Kazakhs	Kazakhstan	100	12.0%	Turuspekov et al. 2011
		Turkic	Kyrgyz	Kyrgyzstan	132	8.3%	Di Cristofaro et al. 2013
		Turkic	Kazakhs	Kazakstan, Almaty, Katon-Karagay	38	7.9%	Zerjal et al. 2002; Zerjal et al. 2003
		Turkic	Uzbeks	Uzbekistan, Kashkadarya	28	7.1%	Zerjal et al. 2002; Zerjal et al. 2003
		Turkic	Uzbeks	Afghanistan	122	3.3%	Di Cristofaro et al. 2013
		Turkic	Kyrgyz	Kyrgyzstan, Central Kyrgyzstan	41	3.0%	Zerjal et al. 2002; Zerjal et al. 2003
		Turkic	Turkmen-Jawzjan	Afghanistan	74	1.4%	Di Cristofaro et al. 2013
	Chinese						
		Sino-Tibetan	Dungans	Kyrgyzstan	12	8.3%	Di Cristofaro et al. 2013
	Indo-Iranian						

Region	Language Group	Language Family	Population	Location	Sample Size	C1b-F1918	Reference
		Indo-European	Hazara	Afghanistan	69	26.1%	Di Cristofaro et al. 2013
		Indo-European	Hazara	Afghanistan	60	23.3%	Haber et al. 2012
		Indo-European	Tajiks	Afghanistan	142	2.8%	Di Cristofaro et al. 2013
East Asia							
	Altaic						
		Turkic	Kazakhs	China, Gansu, Akesai	94	78.7%	Wei et al. 2017
		Turkic	Kazakhs	Xingjiang, China	53	75.5%	Zhong et al. 2010
		Turkic	Kazakhs	China, Xinjiang ,Changji, Mori	63	58.7%	Wei et al. 2017
		Turkic	Kazakhs	China, Xinjiang, Hami, Barkol	104	58.7%	Wei et al. 2017
		Turkic	Kazakhs	China, Xinjiang, Yili, Tekes	19	52.6%	Wei et al. 2017
		Mongolic	Buryats	China, Inner Mongolia, Hailar	26	46.2%	Wei et al. 2017
		Turkic	Kazakhs	China, Xinjiang, Changji, Hutubi	22	45.5%	Wei et al. 2017
		Turkic	Kazakhs	China, Xinjiang, Yili, Zhaosu	29	37.9%	Wei et al. 2017
		Mongolic	Mongols	Mongolia	46	34.8%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Mongolic	Mongols	China, Inner Mongolia	45	31.1%	Zerjal et al. 2003; Xue et al. 2006
		Turkic	Kazakhs	China, Xinjiang, Altay	97	30.9%	Niyazibiligai 2011
		Mongolic	Mongols	Mongolia	45	24.4%	Kim et al. 2011
		Turkic	Kyrgyz	Northwestern China	241	24.1%	Guo et al. 2020
		Mongolic	Daur	China, Heilongjiang	39	23.1%	Zerjal et al. 2003; Xue et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	C1b-F1918	Reference
		Mongolic	Buryats	China, Inner Mongolia	36	19.4%	Kim et al. 2011
		Tungusic	Evenki	China, Inner Mongolia	26	19.2%	Zerjal et al. 2003; Xue et al. 2006
		Mongolic	Mongols	China, Inner Mongolian	22	18.2%	Zhong et al. 2010
		Turkic	Kazakhs	China, Xinjiang, Yining	17	17.6%	Xue 2001; Zerjal et al. 2003
		Mongolic	Mongols	Mongolia, Ulaanbaatar	65	16.9%	Zerjal et al. 2003; Xue et al. 2006
		Mongolic	Xinjiang Kalmyk	China	12	16.7%	Balinova et al. 2019
		Mongolic	Mongols	Northern China	50	16.0%	Zheng et al. 2009
		Mongolic	Mongols	Mongolia	160	15.0%	Di Cristofaro et al. 2013
		Mongolic	Mongol Torgut	Mongolia	47	14.9%	Balinova et al. 2019
		Mongolic	Mongols	China, Inner Mongolia, Hailar	61	14.8%	Wei et al. 2017
		Mongolic	Daur	Northern China	30	13.3%	Zheng et al. 2009
		Tungusic	Xibe	Northern China	28	10.7%	Zheng et al. 2009
		Mongolic	Xibe	China, Yili,Xinjiang	41	9.8%	Zerjal et al. 2003; Xue et al. 2006
		Tungusic	Oroqen	China, Inner Mongolia	31	9.7%	Zerjal et al. 2003; Xue et al. 2006
		Mongolic	Buryats	China, Inner Mongolia, Hailar	54	9.3%	Wei et al. 2017
		Turkic	Kyrgyz	China, Xinjiang	50	8.0%	Wei et al. 2017
		Mongolic	Mongols	China, Qinghai, Delingha	129	7.8%	Wei et al. 2017
		Mongolic	Mongol Derbet	Mongolia	40	7.5%	Balinova et al. 2019

Region	Language Group	Language Family	Population	Location	Sample Size	C1b-F1918	Reference
		Mongolic	Mongols	China, Inner Mongolian, Hailaer	96	7.3%	Zhu et al. 2005
		Mongolic	Mongols	Mongolia, Ulaanbaatar	92	6.5%	Kwak et al. 2006
		Tungusic	Nanai (Hezhe)	Northern China	49	6.1%	Zheng et al. 2009
		Tungusic	Manchu	China, Dalian	35	5.7%	Zerjal et al. 2003; Xue et al. 2006
		Tungusic	Manchu	China, Liaoning	109	4.6%	Zhong et al. 2010
		Tungusic	Nanai (Hezhe)	China, Heilongjiang	45	4.4%	Zerjal et al. 2003; Xue et al. 2006
		Mongolic	Mongols	China, Inner Mongolia	46	4.3%	Wei et al. 2017
		Turkic	Uyghurs	China, Xinjiang, Hotan	96	4.2%	Niyazibiligai 2011
		Turkic	Tuvans	China, Xinjiang, Altay	148	4.1%	Wei et al. 2017
		Tungusic	Oroqen	Northern China	27	3.7%	Zheng et al. 2009
		Turkic	Yugurs	China, Gansu, Sunan	141	3.5%	Wei et al. 2017
		Mongolic	Monguor (Tu)	China, Qinghai, Huzhu	121	3.3%	Wei et al. 2017
		Tungusic	Manchu	China	30	3.3%	Kim et al. 2011
		Mongolic	Mongols	China, Inner Mongolia, Chifeng	67	3.0%	Wei et al. 2017
		Tungusic	Manchu	China, Inner Mongolia, Chifeng	39	2.6%	Wei et al. 2017
		Turkic	Kazakhs	China, Xinjiang, Yili, Xinyuan	43	2.3%	Wei et al. 2017
		Tungusic	Manchu	China, Jilin, Jiutai	146	2.1%	Wei et al. 2017
		Tungusic	Evenki	Northern China	50	2.0%	Zheng et al. 2009
		Turkic	Yugurs	China, Gansu	52	1.9%	Zhou et al. 2008

Region	Language Group	Language Family	Population	Location	Sample Size	C1b-F1918	Reference
		Turkic	Salar	China, Qinghai, Xunhua	135	0.7%	Wei et al. 2017
		Turkic	Uyghurs	China, Xinjiang	187	0.5%	Zhong et al. 2010
		Tungusic	Manchu	Xinbin, Liaoning, China	231	0.4%	He and Guo 2013
	Chinese						
		Sino-Tibetan	Han	China, Inner Mongolia	21	23.8%	Xue 2001; Zerjal et al. 2003
		Sino-Tibetan	Han	China, Ganshu, LanZhou	30	6.7%	Zerjal et al. 2003; Xue et al. 2006
		Sino-Tibetan	Han	China, Yili, Xinjiang	32	3.1%	Zerjal et al. 2003; Xue et al. 2006
		Sino-Tibetan	Han	China, Northeast	98	1.0%	Wei et al. 2017
		Sino-Tibetan	Han	China, Gansu, Dingxi	166	0.6%	Wei et al. 2017
		Sino-Tibetan	Han	China, East	586	0.2%	Wei et al. 2017
	Tibeto-Burman						
		Sino-Tibetan	Tibetan	China, Tibet, Lasa	37	2.7%	Wei et al. 2017
		Sino-Tibetan	Tibetan	China, Xizang	222	1.8%	Zhong et al. 2010
		Sino-Tibetan	Tibetan	China, Tibet, Lasa	243	0.4%	Wei et al. 2017
Eastern Europe							
	Altaic						
		Mongolic	Kalmyks	Elista, Russia	99	3.0%	Nasidze al. 2005; Roewer et al. 2007
		Mongolic	Kalmyk Buzava	Russia	52	1.9%	Balinova et al. 2019
		Mongolic	Kalmyks	Russia, Buryatia	91	1.1%	Derenko et al. 2007a; Malyarchuk et al. 2010
	Slavic						

Region	Language Group	Language Family	Population	Location	Sample Size	C1b-F1918	Reference
		Indo-European	Russian	Russia	406	0.5%	Derenko et al. 2007a; Malyarchuk et al. 2010
Middle East							
	Indo-Iranian						
		Indo-European	East Azeri	Iran	21	4.8%	Di Cristofaro et al. 2013
Northern Eurasia							
	Altaic						
		Turkic	Nogais	Russia	29	13.8%	Zakharov 2010
		Mongolic	Buryats	Russia, China	58	12.1%	Kharkov et al. 2014
		Turkic	Kazakhs	Russia, Altai Republic	89	11.0%	Dulik et al. 2011
		Turkic	Kazakhs	Russia, Altai Republic	30	10.0%	Dulik et al. 2011
		Turkic	Kazakhs	Russia, Altai	36	8.3%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Mongolic	Buryats	Russia, Buryatia	217	6.5%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Turkic	Tozhu Tuvan	Russia	46	4.3%	Balinova et al. 2019
		Mongolic	Buryats	Russia, China	86	3.5%	Kharkov et al. 2014
		Turkic	Khakas	Russia, Khakassia Republic, Topanov	29	3.4%	Kharkov et al. 2011
		Turkic	Altai (Altaians, Altay)	Russia, Altai	89	3.4%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Turkic	Altai (Altaians, Altay)	Russia, Altai Republic	120	3.3%	Dulik et al. 2012a
		Mongolic	Buryats	Russia, Republic of Buryat	215	3.3%	Woźniak et al.
		Turkic	Tuvans	Russia, Tuva	108	2.8%	Derenko et al. 2007a; Malyarchuk et al. 2010

Region	Language Group	Language Family	Population	Location	Sample Size	C1b-F1918	Reference
		Turkic	Shors	Russia, Kemerovo	38	2.6%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Tungusic	Khamnigans	Russia, Chitinskaya?	51	2.0%	Derenko et al. 2007a; Malyarchuk et al. 2010
Slavic							
		Indo-European	Russian	Russia, Ryazanskaja	36	1.0%	Fechner et al. 2008
South Asia							
Indo-Iranian							
		Indo-European	Hazara	Pakistan	25	36.0%	Di Cristofaro et al. 2013
		Indo-European	Hazara	Pakistan, Southern Baluchistan	27	25.9%	Qamar et al. 2002; Zerjal et al. 2003
		Indo-European	Pashtuns (Pathans)	Pakistan	20	5.0%	Di Cristofaro et al. 2013

Supplementary Table 7.5. Contemporary Distribution of the C2c-CTS2657 Mutation.

Region	Language Group	Language Family	Population	Location	Sample Size	C2c-CTS2657	Reference
East Asia							
	Altaic						
		Mongolic	Mongols	Mongolia	46	15.2%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Mongolic	Mongol Torgut	Mongolia	47	14.9%	Balinova et al. 2019
		Mongolic	Xinjiang Kalmyk	China	12	8.3%	Balinova et al. 2019
		Mongolic	Mongols	Mongolia	160	7.5%	Di Cristofaro et al. 2013
		Mongolic	Mongol Derbet	Mongolia	40	7.5%	Balinova et al. 2019
		Tungusic	Manchu	China, Liaoning	109	4.6%	Zhong et al. 2010
		Turkic	Yugurs	China, Gansu, Sunan	141	1.4%	Wei et al. 2017
		Turkic	Uyghurs	China, Xinjiang	187	1.1%	Zhong et al. 2010
		Turkic	Tuvans	China, Xinjiang, Altay	148	0.7%	Wei et al. 2017
	Austro-Asiatic						
		Austro-Asiatic	Kinh	Vietnam	50	2.0%	Macholdt et al. 2019
	Chinese						
		Sino-Tibetan	Han	China, Shangdong, Zoucheng	32	9.4%	Wei et al. 2017
		Sino-Tibetan	Han	China, Shangdong, Guangrao	23	8.7%	Wei et al. 2017
		Sino-Tibetan	Han	China, Gansu, Lanzhou	83	8.4%	Wei et al. 2017
		Sino-Tibetan	Han	China, Guangxi, Baise	19	5.3%	Wei et al. 2017
		Sino-Tibetan	Han	China, Shangdong, Feicheng	21	4.8%	Wei et al. 2017

Region	Language Group	Language Family	Population	Location	Sample Size	C2c-CTS2657	Reference
		Sino-Tibetan	Han	China, Shangdong, Qingzhou	22	4.5%	Wei et al. 2017
		Sino-Tibetan	Han	China, Heilongjiang, Wuchang	27	3.7%	Wei et al. 2017
		Sino-Tibetan	Han	China, Sourthwest	35	2.9%	Wei et al. 2017
		Sino-Tibetan	Han	China, Shangdong, Ningjing	45	2.2%	Wei et al. 2017
		Sino-Tibetan	Han	China, Shangdong, Zhangqiu	48	2.1%	Wei et al. 2017
		Sino-Tibetan	Han	China, Shangdong, Shanghe	48	2.1%	Wei et al. 2017
		Sino-Tibetan	Han	China, Northeast	98	2.0%	Wei et al. 2017
		Sino-Tibetan	Han	China, Shangdong, Cangshan	52	1.9%	Wei et al. 2017
		Sino-Tibetan	Han	China, Gansu, Longnan	121	1.7%	Wei et al. 2017
		Sino-Tibetan	Han	China, Gansu, Wuwei	64	1.6%	Wei et al. 2017
		Sino-Tibetan	Han	China, Gansu, Qingyang	61	1.6%	Wei et al. 2017
		Sino-Tibetan	Han	China, North	223	0.9%	Wei et al. 2017
		Sino-Tibetan	Han	China, Gansu, Dingxi	166	0.6%	Wei et al. 2017
		Sino-Tibetan	Han	China, Gansu, Pingliang	203	0.5%	Wei et al. 2017
		Sino-Tibetan	Han	China, East	586	0.2%	Wei et al. 2017
	Koreanic						
		Koreanic	Koreans	Korea	706	7.1%	Kwon et al. 2015
	Tai-Kadai						
		Tai-Kadai	Laotian	Laos	20	5.0%	Kutanan et al. 2019

Region	Language Group	Language Family	Population	Location	Sample Size	C2c-CTS2657	Reference
		Tai-Kadai	Central Thai	Central Thailand	19	5.0%	Kutanan et al. 2019
	Tibeto-Burman						
		Sino-Tibetan	Hanhi	Vietnam	33	12.1%	Macholdt et al. 2019
		Sino-Tibetan	Sila	Vietnam	29	10.3%	Macholdt et al. 2019
Eastern Europe	Altaic						
		Mongolic	Kalmyk Derbet	Russia	69	29.0%	Balinova et al. 2019
		Mongolic	Kalmyk Buzava	Russia	52	13.5%	Balinova et al. 2019
		Mongolic	Kalmyks	Russia, Buryatia	91	12.1%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Mongolic	Kalmyk Torgut	Russia	58	8.6%	Balinova et al. 2019
		Mongolic	Kalmyk Khoshut	Russia	28	3.6%	Balinova et al. 2019
Northern Eurasia	Altaic						
		Mongolic	Buryats	Russia, China	86	61.6%	Kharkov et al. 2014
		Mongolic	Buryats	Russia, Buryatia	217	53.9%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Turkic	Sojots	Russia, Buryatia	28	53.6%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Tungusic	Khamnigans	Russia, Chitinskaya?	51	52.9%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Mongolic	Buryats	Russia, China	58	19.0%	Kharkov et al. 2014
		Mongolic	Buryats	Russia	138	13.8%	Kharkov et al. 2014
		Turkic	Tuvans	Russia, Tuva	108	2.8%	Derenko et al. 2007a; Malyarchuk et al. 2010
		Tungusic	Evenki	Russia, Krasnoyarskiy	41	2.4%	Derenko et al. 2007a

Region	Language Group	Language Family	Population	Location	Sample Size	C2c-CTS2657	Reference
		Turkic	Teleuts	Russia, Altayskiy, Biysk	44	2.3%	Derenko et al. 2007a; Malyarchuk et al. 2010

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Supplementary Tables for Chapter Eight and Haplogroup G-M201



Supplementary Table 8.1. Contemporary Distribution of Haplogroup G-M201.

Region	Language Group	Language Family	Population	Location	Sample Size	G-M201	Reference
Baltic							
	Baltic						
		Indo-European	Latvians	Latvia	87	1.1%	Rootsi et al. 2012
	Uralic						
		Uralic	Estonians	Estonia	238	1.7%	Rootsi et al. 2012
Caucasus							
	Armenian						
		Indo-European	Armenians Hemsheni	Russia: Krasnodar	89	44.4%	Balanovski et al. 2017
		Indo-European	Armenians Adygei	Russia: Adygea	49	22.4%	Balanovski et al. 2017
		Indo-European	Armenians Krasnodar	Russia: Krasnodar	117	21.4%	Balanovski et al. 2017
		Indo-European	Armenians Erzurum	Georgia	99	16.2%	Balanovski et al. 2017
		Indo-European	Armenians	Russia: Krasnodar	155	12.3%	Balanovski et al. 2015
		Indo-European	Armenians	Caucasus South	426	12.0%	Rootsi et al. 2012, Yunusbayev et al. 2012
		Indo-European	Armenians	Armenia	57	10.5%	Yunubayev et al. 2012
		Indo-European	Armenians Don	Russia: Rostov and Myasnikovsky Regions	92	9.8%	Balanovski et al. 2017
		Indo-European	Armenians, Eastern	Armenia	416	8.7%	Hovhannisyan et al. 2014
	Indo-Iranian						

Region	Language Group	Language Family	Population	Location	Sample Size	G-M201	Reference
		Indo-European	North Ossetians	Caucasus Russia	132	69.7%	Yunubayev et al. 2012
		Indo-European	North Ossetians	Caucasus Northwest	132	69.7%	Rootsi et al. 2012, Yunusbaev et al. 2012
		Indo-European	South Ossetians	Georgia	21	47.6%	Yunubayev et al. 2012
		Indo-European	South Ossetians	Caucasus South	23	43.5%	Rootsi et al. 2012, Yunusbaev et al. 2012
		Indo-European	Judeo Tats	Daghestan	17	17.6%	Karafet et al. 2016
		Indo-European	Tat	Daghestan	24	4.2%	Karafet et al. 2016
	Kartvelian						
		Kartvelian	Georgians	Georgia	65	50.8%	Yunubayev et al. 2012
		Kartvelian	Georgians	Caucasus South	66	50.0%	Rootsi et al. 2012, Yunusbaev et al. 2012
		Kartvelian	Imereti	Georgia	62	43.6%	Balanovski et al. 2017
		Kartvelian	Georgians, Eastern	Georgia	54	7.4%	Balanovski et al. 2017
	North Caucasian						
		North Caucasian	Abkhaz	Caucasus South	162	47.5%	Rootsi et al. 2012, Yunusbaev et al. 2012
		North Caucasian	Abkhaz	Georgia	162	47.5%	Yunubayev et al. 2012
		North Caucasian	Adyghe	Caucasus Russia	154	47.4%	Yunubayev et al. 2012
		North Caucasian	Cherkessians	Caucasus Northwest	126	45.2%	Rootsi et al. 2012, Yunusbaev et al. 2012
		North Caucasian	Cherkessians	Caucasus Russia	126	45.2%	Yunubayev et al. 2012
		North Caucasian	Adyghe	Caucasus Northwest	156	44.9%	Rootsi et al. 2012, Yunusbaev et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	G-M201	Reference
		North Caucasian	Kabardians	Caucasus Russia	140	43.6%	Yunubayev et al. 2012
		North Caucasian	Kabardians	Caucasus Northwest	141	43.3%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Abazins	Caucasus	88	41.0%	Yunubayev et al. 2012
		North Caucasian	Abazins	Caucasus Northwest	90	40.0%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Hinuq	Daghestan	15	33.3%	Karafet et al. 2016
		North Caucasian	Chamalals	Caucasus Northeast	27	18.5%	Rootsi et al. 2012, Yunusbaev et al. 2012
		North Caucasian	Chamalals	Caucasus Russia	27	18.5%	Yunubayev et al. 2012
		North Caucasian	Bagvalal	Daghestan	10	10.0%	Karafet et al. 2016
		North Caucasian	Lezgians	Caucasus Russia	31	9.7%	Yunubayev et al. 2012
		North Caucasian	Lezgians	Caucasus Northeast	31	9.7%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Laks	Daghestan	22	9.1%	Karafet et al. 2016
		North Caucasian	Andis	Daghestan	12	8.3%	Karafet et al. 2016
		North Caucasian	Botlikh	Daghestan	16	6.3%	Karafet et al. 2016
		North Caucasian	Andis	Caucasus Northeast	49	6.1%	Rootsi et al. 2012, Yunusbayev et al. 2001
		North Caucasian	Andis	Caucasus Russia	49	6.1%	Yunubayev et al. 2012
		North Caucasian	Ingush	Caucasus Russia	105	4.8%	Yunubayev et al. 2012
		North Caucasian	Ingush	Caucasus Northeast	105	4.8%	Rootsi et al. 2012, Yunusbaev et al. 2012
		North Caucasian	Dargins (Dargwa)	Caucasus Russia	67	3.0%	Yunubayev et al. 2012
		North Caucasian	Dargins (Dargwa)	Caucasus Northeast	68	2.9%	Rootsi et al. 2012, Yunusbayev et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	G-M201	Reference
		North Caucasian	Chechens	Caucasus Russia	165	1.8%	Yunubayev et al. 2012
		North Caucasian	Chechens	Caucasus Northeast	167	1.8%	Rootsi et al. 2012, Yunusbaev et al. 2001
	Turkic	Turkic	Balkars	Caucasus Russia	135	32.6%	Yunubayev et al. 2012
		Turkic	Balkars	Caucasus Northwest	136	32.4%	Rootsi et al. 2012, Yunusbaev et al. 2001
		Turkic	Karachays	Caucasus Russia	69	31.9%	Yunubayev et al. 2012
		Turkic	Karachays	Caucasus Northwest	69	31.9%	Rootsi et al. 2012, Yunusbaev et al. 2012
		Turkic	Azerbaijani	Daghestan	13	30.8%	Karafet et al. 2016
		Turkic	Nogais, Kuban	Caucasus Russia	87	13.8%	Yunubayev et al. 2012
		Turkic	Nogais	Caucasus Northwest	87	13.8%	Rootsi et al. 2012, Yunusbaev et al. 2001
		Turkic	Kumyks	Caucasus Russia	73	13.7%	Yunubayev et al. 2012
		Turkic	Kumyks	Caucasus Northeast	76	13.2%	Rootsi et al. 2012, Yunusbaev et al. 2001
		Turkic	Kumyks	Daghestan	21	9.5%	Karafet et al. 2016
		Turkic	Nogais	Daghestan	22	9.1%	Karafet et al. 2016
		Turkic	Nogais, Kara	Caucasus Russia	76	1.3%	Yunubayev et al. 2012
		Turkic	Nogais (Karanogays)	Caucasus Northeast	77	1.3%	Rootsi et al. 2012, Yunusbaev et al. 2001
Central Asia	Afro-Asiatic	Afro-Asiatic	Arabs (Kasashtan)	Central Asia	39	5.1%	Rootsi et al. 2012, Yunusbaev et al. 2001

Region	Language Group	Language Family	Population	Location	Sample Size	G-M201	Reference
Indo-Iranian							
		Indo-European	Pashtun-Baghlan	Afghanistan	34	17.6%	Di Cristofaro et al. 2013
		Indo-European	Pashtun-Kunduz	Afghanistan	53	11.3%	Di Cristofaro et al. 2013
		Indo-European	Tajik-Badakhshan	Afghanistan	37	10.8%	Di Cristofaro et al. 2013
		Indo-European	Tajik-Takhar	Afghanistan	35	8.6%	Di Cristofaro et al. 2013
		Indo-European	Pashtuns (Pathans)	Afghanistan	190	7.9%	Lacau et al. 2012
		Indo-European	Hazara-Bamiyan	Afghanistan	69	5.8%	Di Cristofaro et al. 2013
		Indo-European	Kurds	Kazakhstan	22	4.5%	Rootsi et al. 2012, Yunusbaev et al. 2001
		Indo-European	Tajik-Balkh	Afghanistan	54	3.7%	Di Cristofaro et al. 2013
Turkic							
		Turkic	Kazakhs Madjar	Kazakhstan	45	86.7%	Balanovski et al. 2015
		Turkic	Kazakhs (Akzharsky)	Kazakhstan	90	55.6%	Balanovski et al. 2015
		Turkic	Kazakhs (Karkaralinsky)	Kazakhstan	178	52.8%	Balanovski et al. 2015
		Turkic	Kazakhs Magzhan Zhumabaev)	Kazakhstan	87	34.5%	Balanovski et al. 2015
		Turkic	Kazakhs (Amangeldinsky)	Kazakhstan	141	25.5%	Balanovski et al. 2015

Region	Language Group	Language Family	Population	Location	Sample Size	G-M201	Reference
		Turkic	Uzbeks-Sar-e-Pol	Afghanistan	28	7.1%	Di Cristofaro et al. 2013
		Turkic	Kazakhs (Arysky)	Kazakhstan	118	6.8%	Balanovski et al. 2015
		Turkic	Kazakhs	Kazakhstan-Arys	119	6.7%	Zhabagin et al. 2017
		Turkic	Kyrgyz-East	Kyrgyzstan	35	5.7%	Di Cristofaro et al. 2013
		Turkic	Uzbeks	Uzbekistan-Tashkent	52	3.8%	Zhabagin et al. 2017
		Turkic	Turkmen	Uzbekistan-Karakalpakstan	83	3.6%	Zhabagin et al. 2017
		Turkic	Kazakhs	Central Asia	180	3.3%	Rootsi et al. 2012, Yunusbaev et al. 2001
		Turkic	Uzbeks	Uzbekistan-Xorezm Region	98	3.2%	Zhabagin et al. 2017
		Turkic	Uzbeks-Jawzjan	Afghanistan	94	3.2%	Di Cristofaro et al. 2013
		Turkic	Uzbeks	Uzbekistan-Fergana Region	67	3.0%	Zhabagin et al. 2017
		Turkic	Karakalpaks	Uzbekistan-Karakalpakstan	100	3.0%	Zhabagin et al. 2017
		Turkic	Kyrgyz	Central Asia	153	2.0%	Rootsi et al. 2012
		Turkic	Kazakhs	Kazakhstan-Shymkent	55	1.8%	Zhabagin et al. 2017
East Asia							
	Mongolic						
		Mongolic	Mongols Dariganga	Mongolia	73	5.5%	Balanovski et al. 2015

Region	Language Group	Language Family	Population	Location	Sample Size	G-M201	Reference
		Mongolic	Mongols Southeast	Mongolia	23	4.3%	Di Cristofaro et al. 2013
Eastern Europe							
	Indo-Iranian						
	Indo-European	Roma		Slovakia	192	0.5%	Rootsi et al. 2012
	Italic						
	Indo-European	Romanians		Romania	336	4.2%	Rootsi et al. 2012
	Indo-European	Moldovans		Moldavia	59	3.4%	Rootsi et al. 2012
	Mongolic						
	Mongolic	Kalmyks		(Russia)	80	2.5%	Rootsi et al. 2012
	Slavic						
	Indo-European	Bulgarians		Bulgaria	809	4.9%	Rootsi et al. 2012
	Indo-European	Czechs		Czech Republic	34	2.9%	Rootsi et al. 2012
	Indo-European	Slovenes		Slovenia	102	2.9%	Rootsi et al. 2012
	Indo-European	Poles		Poland	205	2.9%	Rootsi et al. 2012
	Indo-European	Ukrainians		Ukraine	597	2.8%	Rootsi et al. 2012
	Indo-European	Bosnians		Bosnia	112	2.7%	Rootsi et al. 2012, Pericic et al. 2005
	Indo-European	Croatians		Croatia	377	2.1%	Rootsi et al. 2012, Barac et al. 2003
	Indo-European	Belarusians		Belorussia	582	1.5%	Rootsi et al. 2012
	Indo-European	Russians		Russia west/central	435	1.4%	Rootsi et al. 2012, Balanovsky et al. 2008
	Indo-European	Russians		Russia North	380	1.3%	Rootsi et al. 2012
	Indo-European	Slovaks		Slovakia	277	1.1%	Rootsi et al. 2012
	Indo-European	Russians		Russia South	644	0.8%	Rootsi et al. 2012, Balanovsky et al. 2008

Region	Language Group	Language Family	Population	Location	Sample Size	G-M201	Reference
Turkic							
		Turkic	Bashkirs (Kipchak tribes)	Bashkortostan Republic	125	12.0%	Balanovski et al. 2015
		Turkic	Bashkirs	Russia	89	3.4%	Rootsi et al. 2012
		Turkic	Chuvashes	(Russia)	197	1.5%	Rootsi et al. 2012
Uralic							
		Uralic	Hungarians	Hungary	113	1.8%	Rootsi et al. 2012
		Uralic	Mordvins	(Russia)	83	1.2%	Rootsi et al. 2012
Mediterranean							
Greek							
		Indo-European	Greek Cypriots	Cyprus	629	12.7%	Voskarides et al. 2016
		Indo-European	Cretans	Crete	361	9.1%	Rootsi et al. 2012, King et al. 2008, Martinez et al. 2007
		Indo-European	Greeks	Greeks (Smyrna)	58	8.6%	Rootsi et al. 2012, King et al. 2011
		Indo-European	Greeks	Greeks (Phocaea)	31	6.5%	Rootsi et al. 2012, King et al. 2011
		Indo-European	Greeks	Greece	185	4.9%	Rootsi et al. 2012, King et al. 2008
Italic							
		Indo-European	Corsicans	Corsica	330	21.5%	Rootsi et al. 2012
		Indo-European	Sardinians	Sardinia set2	519	13.1%	Rootsi et al. 2012
		Indo-European	Sicilians	Sicily	76	10.5%	Rootsi et al. 2012
		Indo-European	Italians	Italy	288	9.7%	Rootsi et al. 2012
		Indo-European	Sardinians	Sardinia set1	16	6.3%	Rootsi et al. 2012
Middle East							

Region	Language Group	Language Family	Population	Location	Sample Size	G-M201	Reference
Afro-Asiatic							
		Afro-Asiatic	Palestinians	Palestina	90	22.2%	Rootsi et al. 2012, Behar et al. 2010
		Afro-Asiatic	Israel	Druze	307	11.7%	Rootsi et al. 2012, Behar et al. 2010
		Afro-Asiatic	Assyrians	Iran	39	7.7%	Grugni et al. 2012
		Afro-Asiatic	Assyrians	Syria, Iran	88	6.8%	Rootsi et al. 2012, Chiaroni et al. 2010
		Afro-Asiatic	Emirati	United Arab Emirates	164	4.3%	Rootsi et al. 2012, Cadenas et al. 2008
		Afro-Asiatic	Jordanians	Jordan	76	3.9%	Rootsi et al. 2012
		Afro-Asiatic	Lebanese	Lebanon	28	3.6%	Rootsi et al. 2012
		Afro-Asiatic	Qatari	Qatar	72	2.8%	Rootsi et al. 2012, Cadenas et al. 2008
		Afro-Asiatic	Omani	Oman	121	1.7%	Rootsi et al. 2012, Cadenas et al. 2008
		Afro-Asiatic	Yemeni	Yemen	62	1.6%	Rootsi et al. 2012, Luis et al. 2004
Armenian							
		Indo-European	Armenians Hamshenis	Turkey	90	42.2%	Balanovski et al. 2015
		Indo-European	Armenians	Iran	34	20.6%	Grugni et al. 2012
		Indo-European	Armenians Central	Turkey	200	16.0%	Hovhannisyan et al. 2014
		Indo-European	Armenians, Western	Turkey	148	13.5%	Hovhannisyan et al. 2014
		Indo-European	Armenians Sasun	Turkey	104	12.5%	Hovhannisyan et al. 2014
		Indo-European	Armenians, Van	Turkey	103	7.8%	Hovhannisyan et al. 2014

Region	Language Group	Language Family	Population	Location	Sample Size	G-M201	Reference
		Indo-European	Armenians, Salmast	Iran	199	7.5%	Hovhannisyan et al. 2014
	Indo-Iranian						
		Indo-European	Mazandarani	Iran	72	20.8%	Grugni et al. 2012
		Indo-European	Gilaki	Iran	64	15.6%	Grugni et al. 2012
		Indo-European	Kurds	Iran	59	11.9%	Grugni et al. 2012
		Indo-European	Iranians, set2	Iran	1116	11.1%	Rootsi et al. 2012
		Indo-European	Iranians, set1	Iran	233	9.9%	Rootsi et al. 2012, Reguero et al. 2006
		Indo-European	Iranians (south-east)	Iran	358	5.1%	Balanovski et al. 2015
		Indo-European	Baloch	Iran	24	4.2%	Grugni et al. 2012
		Indo-European	Kurds	Turkey (Cilicia)	30	3.3%	Rootsi et al. 2012
	Kartvelian						
		Kartvelian	Laz	Turkey	36	19.4%	Balanovski et al. 2017
	Turkic						
		Turkic	Azerbaijani	Iran	297	12.8%	Rootsi et al. 2012
		Turkic	Turks	Turkey East	208	12.5%	Rootsi et al. 2012, Cinnioglu et al. 2004
		Turkic	Turks	Turkey Central	246	12.2%	Rootsi et al. 2012, Cinnioglu et al. 2004
		Turkic	Azerbaijani East	Iran	21	9.5%	Di Cristofaro et al. 2013
		Turkic	Turks	Turkey West	163	9.2%	Rootsi et al. 2012, Cinnioglu et al. 2004
		Turkic	Azerbaijani	Iran	63	7.9%	Grugni et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	G-M201	Reference
		Turkic	Turks	Turkey	80	6.3%	Balanovski et al. 2015
		Turkic	Turkmen	Iran	68	5.9%	Grugni et al. 2012
		Turkic	Azerbaijani	Iran	21	5.0%	Balanovski et al. 2015
		Turkic	Tatars	(Russia)	162	3.1%	Rootsi et al. 2012
North Africa							
	Afro-Asiatic						
		Afro-Asiatic	Egyptians	Egypt	147	8.8%	Rootsi et al. 2012, Luis et al. 2004
		Afro-Asiatic	Berbers	Morocco	266	1.5%	Rootsi et al. 2012, Flores et al. 2004
Scandinavia							
	Germanic						
		Indo-European	Danes	Denmark	110	1.8%	Rootsi et al. 2012
South Asia							
	Dravidian						
		Dravidian	Iyengar	Tamil Nadu	11	27.3%	Arunkumar et al. 2012
		Dravidian	Brahui	Pakistan	25	16.0%	Di Cristofaro et al. 2013
		Dravidian	Nadar Cape	Tamil Nadu	98	9.2%	Arunkumar et al. 2012
		Dravidian	Maravar	Tamil Nadu	80	8.8%	Arunkumar et al. 2012
		Dravidian	Nadar TNV	Tamil Nadu	59	8.5%	Arunkumar et al. 2012
		Dravidian	Parayar	Tamil Nadu	24	8.3%	Arunkumar et al. 2012
		Dravidian	Pallar	Tamil Nadu	51	7.8%	Arunkumar et al. 2012
		Dravidian	Kanikaran	Tamil Nadu	17	5.9%	Arunkumar et al. 2012
		Dravidian	Vanniyar	Tamil Nadu	21	4.8%	Arunkumar et al. 2012
		Dravidian	Vadama	Tamil Nadu	63	4.8%	Arunkumar et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	G-M201	Reference
		Dravidian	Piramalai Kallar	Tamil Nadu	53	3.8%	Arunkumar et al. 2012
		Dravidian	Ezhava	Tamil Nadu	95	3.2%	Arunkumar et al. 2012
		Dravidian	Valayar	Tamil Nadu	95	2.1%	Arunkumar et al. 2012
		Dravidian	Paliyan	Tamil Nadu	95	2.1%	Arunkumar et al. 2012
		Dravidian	Tamil Jains	Tamil Nadu	100	2.0%	Arunkumar et al. 2012
		Dravidian	Yadhava	Tamil Nadu	107	1.9%	Arunkumar et al. 2012
	Indo-Iranian						
		Indo-European	Kalash	Pakistan	20	20.0%	Di Cristofaro et al. 2013
		Indo-European	Pashtuns (Pathans)	Pakistan	20	10.0%	Di Cristofaro et al. 2013
		Indo-European	Pakistani	Pakistan	176	6.3%	Rootsi et al. 2012, Sengupta et al. 2006
		Indo-European	Parsi	India	41	2.4%	Rootsi et al. 2012, Kivisid et al. 2003
	Isolate						
		Isolate	Burusho	Pakistan	20	5.0%	Di Cristofaro et al. 2013
Western Europe	Germanic						
		Indo-European	Tyroloans	Tyrol	2379	11.3%	Berger et al. 2013
		Indo-European	Austrians	Austria	18	5.6%	Rootsi et al. 2012
		Indo-European	Germans	Germany	321	4.7%	Rootsi et al. 2012
		Indo-European	Flemish	Belgium	773	3.3%	Larmuseau et al. 2014
		Indo-European	Dutch	Netherlands	87	2.3%	Rootsi et al. 2012
	Italic						
		Indo-European	Iberians	Western Iberia	149	6.0%	Rootsi et al. 2012, Flores et al. 2004

Region	Language Group	Language Family	Population	Location	Sample Size	G-M201	Reference
		Indo-European	French	France, Provence	368	4.6%	Rootsi et al. 2012
		Indo-European	French	France	93	4.3%	Rootsi et al. 2012
		Indo-European	Iberians	Eastern Iberia	206	3.9%	Rootsi et al. 2012, Flores et al. 2004
		Indo-European	Iberians	Central Iberia	133	3.8%	Rootsi et al. 2012, Flores et al. 2004
		Indo-European	Iberians	Southern Iberia	328	3.0%	Rootsi et al. 2012, Flores et al. 2004
		Indo-European	Iberians	Northern Iberia	286	2.8%	Rootsi et al. 2012, Flores et al. 2004

Supplementary Table 8.2. Contemporary Distribution of G1-M285 Mutations.

Region	Language Group	Language Family	Population	Location	Sample Size	G1-M285	Reference
Baltic							
	Uralic						
		Uralic	Estonians	Estonia	238	0.4%	Rootsi et al. 2012
Caucasus							
	Armenian						
		Indo-European	Armenians Hemsheni	Russia: Krasnodar	89	42.2%	Balanovski et al. 2017
		Indo-European	Armenians Krasnodar	Russia: Krasnodar	117	13.7%	Balanovski et al. 2017
		Indo-European	Armenians	Russia: Krasnodar	155	12.3%	Balanovski et al. 2015
		Indo-European	Armenians Adygei	Russia: Adygea	49	6.1%	Balanovski et al. 2017
		Indo-European	Armenians Erzurum	Georgia	99	3.0%	Balanovski et al. 2017
		Indo-European	Armenians	Caucasus South	426	1.6%	Rootsi et al. 2012, Yunusbaev et al. 2011
	Kartvelian						
		Kartvelian	Imereti	Georgia	62	3.2%	Balanovski et al. 2017
	North Caucasian						
		North Caucasian	Kabardians	Caucasus Northwest	141	0.7%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Kabardians	Caucasus Russia	140	0.7%	Yunubayev et al. 2012
		North Caucasian	Adyghe	Caucasus Northwest	156	0.6%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Adyghe	Caucasus Russia	154	0.6%	Yunubayev et al. 2012
		North Caucasian	Chechens	Caucasus Russia	165	0.6%	Yunubayev et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	G1-M285	Reference
Central Asia	Turkic	North Caucasian	Chechens	Caucasus Northeast	167	0.6%	Rootsi et al. 2012, Yunusbaev et al. 2001
		Turkic	Azerbaijani	Daghestan	13	30.8%	Karafet et al. 2016
	Indo-Iranian	Indo-European	Tajik-Takhar	Afghanistan	35	2.9%	Di Cristofaro et al. 2013
		Indo-European	Pashtun-Baghlan	Afghanistan	34	2.9%	Di Cristofaro et al. 2013
	Turkic	Indo-European	Tajik-Badakhshan	Afghanistan	37	2.7%	Di Cristofaro et al. 2013
		Turkic	Kazakhs Madjar	Kazakhstan	45	86.7%	Balanovski et al. 2015
	Turkic	Kazakhs (Akzharsky)	Kazakhstan	90	55.6%	Balanovski et al. 2015	
	Turkic	Kazakhs (Karkaralinsky)	Kazakhstan	178	52.8%	Balanovski et al. 2015	
	Turkic	Kazakhs Magzhan Zhumabaev)	Kazakhstan	87	34.5%	Balanovski et al. 2015	
	Turkic	Kazakhs (Amangeldinsky)	Kazakhstan	141	25.5%	Balanovski et al. 2015	
Turkic	Kazakhs (Arysky)	Kazakhstan	118	6.8%	Balanovski et al. 2015		
Turkic	Kazakhs	Kazakhstan-Arys	119	6.7%	Zhabagin et al. 2017		
Turkic	Kazakhs	Central Asia	180	2.2%	Rootsi et al. 2012, Yunusbaev et al. 2001		

Region	Language Group	Language Family	Population	Location	Sample Size	G1-M285	Reference
		Turkic	Kazakhs	Kazakhstan-Shymkent	55	1.8%	Zhabagin et al. 2017
East Asia							
	Mongolic						
		Mongolic	Mongols Dariganga	Mongolia	73	5.5%	Balanovski et al. 2015
		Mongolic	Mongols Southeast	Mongolia	23	4.3%	Di Cristofaro et al. 2013
Eastern Europe							
	Slavic						
		Indo-European	Russians	Russia North	380	0.5%	Rootsi et al. 2012
	Turkic						
		Turkic	Bashkirs (Kipchak tribes)	Bashkortostan Republic	125	12.0%	Balanovski et al. 2015
Middle East							
	Afro-Asiatic						
		Afro-Asiatic	Assyrians	Iran	39	5.1%	Grugni et al. 2012
		Afro-Asiatic	Assyrians	Syria, Iran	88	2.3%	Rootsi et al. 2012, Chiaroni et al. 2010
		Afro-Asiatic	Emirati	United Arab Emirates	164	1.8%	Rootsi et al. 2012, Cadenas et al. 2008
		Afro-Asiatic	Omani	Oman	121	1.7%	Rootsi et al. 2012, Cadenas et al. 2008
		Afro-Asiatic	Israel	Druze	307	0.3%	Rootsi et al. 2012, Behar et al. 2010
	Armenian						
		Indo-European	Armenians Hamshenis	Turkey	90	42.2%	Balanovski et al. 2015
		Indo-European	Armenians	Iran	34	2.9%	Grugni et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	G1-M285	Reference
Indo-Iranian							
		Indo-European	Iranians (south-east)	Iran	358	5.1%	Balanovski et al. 2015
		Indo-European	Mazandarani	Iran	72	4.2%	Grugni et al. 2012
		Indo-European	Baloch	Iran	24	4.2%	Grugni et al. 2012
		Indo-European	Iranians, set1	Iran	233	3.9%	Rootsi et al. 2012, Reguero et al. 2006
		Indo-European	Kurds	Iran	59	3.4%	Grugni et al. 2012
		Indo-European	Iranians, set2	Iran	1116	1.8%	Rootsi et al. 2012
		Indo-European	Gilaki	Iran	64	1.6%	Grugni et al. 2012
Kartvelian							
		Kartvelian	Laz	Turkey	36	2.8%	Balanovski et al. 2017
Turkic							
		Turkic	Turks	Turkey	80	6.3%	Balanovski et al. 2015
		Turkic	Azerbaijani	Iran	21	5.0%	Balanovski et al. 2015
		Turkic	Azerbaijani East	Iran	21	4.8%	Di Cristofaro et al. 2013
		Turkic	Turks	Turkey East	208	0.5%	Rootsi et al. 2012, Cinnioglu et al. 2004
		Turkic	Azerbaijani	Iran	297	0.3%	Rootsi et al. 2012
South Asia							
Dravidian							
		Dravidian	Brahui	Pakistan	25	4.0%	Di Cristofaro et al. 2013
Indo-Iranian							
		Indo-European	Pakistani	Pakistan	176	0.6%	Rootsi et al. 2012, Sengupta et al. 2006
Western Europe							

Region	Language Group	Language Family	Population	Location	Sample Size	G1-M285	Reference
	Italic						
		Indo-European	French	France, Provence	368	0.2%	Rootsi et al. 2012

Supplementary Table 8.3 Contemporary Distribution of G2-P287 Mutations.

Region	Language Group	Language Family	Population	Location	Sample Size	G2-P287	Reference
Baltic							
	Uralic						
		Uralic	Estonians	Estonia	238	1.3%	Rootsi et al. 2012
Caucasus							
	Armenian						
		Indo-European	Armenians Erzurum	Georgia	99	13.1%	Balanovski et al. 2017
		Indo-European	Armenians Adygei	Russia: Adygea	49	12.2%	Balanovski et al. 2017
		Indo-European	Armenians	Armenia	57	10.5%	Yunubayev et al. 2012
		Indo-European	Armenians Don	Russia: Rostov and Myasnikovsky Regions	92	9.8%	Balanovski et al. 2017
		Indo-European	Armenians	Caucasus South	426	8.9%	Rootsi et al. 2012, Yunusbaev et al. 2011
		Indo-European	Armenians Krasnodar	Russia: Krasnodar	117	7.7%	Balanovski et al. 2017
		Indo-European	Armenians Hemsheni	Russia: Krasnodar	89	2.2%	Balanovski et al. 2017
	Indo-Iranian						
		Indo-European	North Ossetians	Caucasus Russia	132	69.7%	Yunubayev et al. 2012
		Indo-European	North Ossetians	Caucasus Northwest	132	69.7%	Rootsi et al. 2012, Yunusbaev et al. 2001
		Indo-European	South Ossetians	Georgia	21	47.6%	Yunubayev et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	G2-P287	Reference
		Indo-European	South Ossetians	Caucasus South	23	43.5%	Rootsi et al. 2012, Yunusbaev et al. 2001
		Indo-European	Judeo Tats	Daghestan	17	18.0%	Karafet et al. 2016
		Indo-European	Tat	Daghestan	24	4.2%	Karafet et al. 2016
	Kartvelian						
		Kartvelian	Georgians	Georgia	65	50.8%	Yunubayev et al. 2012
		Kartvelian	Georgians	Caucasus South	66	47.0%	Rootsi et al. 2012, Yunusbaev et al. 2001
		Kartvelian	Imereti	Georgia	62	40.4%	Balanovski et al. 2017
		Kartvelian	Georgians, Eastern	Georgia	54	7.5%	Balanovski et al. 2017
	North Caucasian						
		North Caucasian	Abkhaz	Georgia	162	47.5%	Yunubayev et al. 2012
		North Caucasian	Adyghe	Caucasus Russia	154	46.8%	Yunubayev et al. 2012
		North Caucasian	Abkhaz	Caucasus South	162	45.7%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Cherkessians	Caucasus Northwest	126	45.2%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Cherkessians	Caucasus Russia	126	45.2%	Yunubayev et al. 2012
		North Caucasian	Adyghe	Caucasus Northwest	156	43.6%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Kabardians	Caucasus Russia	140	42.9%	Yunubayev et al. 2012
		North Caucasian	Kabardians	Caucasus Northwest	141	41.8%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Abazins	Caucasus	88	41.0%	Yunubayev et al. 2012
		North Caucasian	Abazins	Caucasus Northwest	90	38.9%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Hinuq	Daghestan	15	33.3%	Karafet et al. 2016

Region	Language Group	Language Family	Population	Location	Sample Size	G2-P287	Reference
		North Caucasian	Chamalals	Caucasus Northeast	27	18.5%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Chamalals	Caucasus Russia	27	18.5%	Yunubayev et al. 2012
		North Caucasian	Bagvalal	Daghestan	10	10.0%	Karafet et al. 2016
		North Caucasian	Lezgians	Caucasus Russia	31	9.7%	Yunubayev et al. 2012
		North Caucasian	Lezgians	Caucasus Northeast	31	9.7%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Laks	Daghestan	22	9.1%	Karafet et al. 2016
		North Caucasian	Andis	Daghestan	12	8.3%	Karafet et al. 2016
		North Caucasian	Botlikh	Daghestan	16	6.3%	Karafet et al. 2016
		North Caucasian	Andis	Caucasus Northeast	49	6.1%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Andis	Caucasus Russia	49	6.1%	Yunubayev et al. 2012
		North Caucasian	Ingush	Caucasus Russia	105	4.8%	Yunubayev et al. 2012
		North Caucasian	Ingush	Caucasus Northeast	105	4.8%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Dargins (Dargwa)	Caucasus Russia	67	3.0%	Yunubayev et al. 2012
		North Caucasian	Dargins (Dargwa)	Caucasus Northeast	68	2.9%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Chechens	Caucasus Russia	165	1.2%	Yunubayev et al. 2012
		North Caucasian	Chechens	Caucasus Northeast	167	1.2%	Rootsi et al. 2012, Yunusbaev et al. 2001
	Turkic	Turkic	Balkars	Caucasus Russia	135	32.6%	Yunubayev et al. 2012
		Turkic	Balkars	Caucasus Northwest	136	32.4%	Rootsi et al. 2012, Yunusbaev et al. 2001
		Turkic	Karachays	Caucasus Russia	69	31.9%	Yunubayev et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	G2-P287	Reference		
		Turkic	Karachays	Caucasus Northwest	69	31.9%	Rootsi et al. 2012, Yunusbaev et al. 2001		
		Turkic	Nogais, Kuban	Caucasus Russia	87	13.8%	Yunubayev et al. 2012		
		Turkic	Nogais	Caucasus Northwest	87	13.8%	Rootsi et al. 2012, Yunusbaev et al. 2001		
		Turkic	Kumyks	Caucasus Russia	73	13.7%	Yunubayev et al. 2012		
		Turkic	Kumyks	Caucasus Northeast	76	13.2%	Rootsi et al. 2012, Yunusbaev et al. 2001		
		Turkic	Kumyks	Daghestan	21	9.6%	Karafet et al. 2016		
		Turkic	Nogais	Daghestan	22	8.5%	Karafet et al. 2016		
		Turkic	Nogais, Kara	Caucasus Russia	76	1.3%	Yunubayev et al. 2012		
		Central Asia	Afro-Asiatic	Afro-Asiatic	Arabs (Kasashtan)	Central Asia	39	5.1%	Rootsi et al. 2012, Yunusbaev et al. 2001
				Indo-Iranian	Indo-European	Pashtun-Kunduz	Afghanistan	53	15.1%
Indo-European	Pashtun-Baghlan				Afghanistan	34	14.7%	Di Cristofaro et al. 2013	
Indo-European	Tajik-Badakhshan				Afghanistan	37	8.1%	Di Cristofaro et al. 2013	
Indo-European	Pashtuns (Pathans)				Afghanistan	190	7.4%	Lacau et al. 2012	
Indo-European	Tajik-Takhar				Afghanistan	35	5.7%	Di Cristofaro et al. 2013	
Indo-European	Hazara-Bamiyan				Afghanistan	69	5.7%	Di Cristofaro et al. 2013	

Region	Language Group	Language Family	Population	Location	Sample Size	G2-P287	Reference
		Indo-European	Kurds	Kazakhstan	22	4.5%	Rootsi et al. 2012, Yunusbaev et al. 2001
		Indo-European	Tajik-Balkh	Afghanistan	54	3.7%	Di Cristofaro et al. 2013
	Turkic						
		Turkic	Uzbeks-Sar-e-Pol	Afghanistan	28	7.2%	Di Cristofaro et al. 2013
		Turkic	Kyrgyz-East	Kyrgyzstan	35	5.8%	Di Cristofaro et al. 2013
		Turkic	Uzbeks-Jawzjan	Afghanistan	94	4.3%	Di Cristofaro et al. 2013
		Turkic	Uzbeks	Uzbekistan-Tashkent	52	3.8%	Zhabagin et al. 2017
		Turkic	Turkmen	Uzbekistan-Karakalpakstan	83	3.6%	Zhabagin et al. 2017
		Turkic	Uzbeks	Uzbekistan-Xorezm Region	98	3.0%	Zhabagin et al. 2017
		Turkic	Karakalpaks	Uzbekistan-Karakalpakstan	100	3.0%	Zhabagin et al. 2017
		Turkic	Kyrgyz	Central Asia	153	2.0%	Rootsi et al. 2012
		Turkic	Kazakhs	Central Asia	180	1.1%	Rootsi et al. 2012, Yunusbaev et al. 2001
Eastern Europe							
	Indo-Iranian						
		Indo-European	Roma	Slovakia	192	0.5%	Rootsi et al. 2012
	Italic						
		Indo-European	Romanians	Romania	336	4.2%	Rootsi et al. 2012
		Indo-European	Moldovans	Moldavia	59	3.4%	Rootsi et al. 2012
	Mongolic						
		Mongolic	Kalmyks	(Russia)	80	2.5%	Rootsi et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	G2-P287	Reference
Slavic							
		Indo-European	Bulgarians	Bulgaria	809	4.6%	Rootsi et al. 2012
		Indo-European	Czechs	Czech Republic	34	2.9%	Rootsi et al. 2012
		Indo-European	Slovenes	Slovenia	102	2.9%	Rootsi et al. 2012
		Indo-European	Poles	Poland	205	2.9%	Rootsi et al. 2012
		Indo-European	Bosnians	Bosnia	112	2.7%	Rootsi et al. 2012, Pericic et al. 2005
		Indo-European	Ukrainians	Ukraine	597	2.5%	Rootsi et al. 2012
		Indo-European	Croatians	Croatia	377	1.9%	Rootsi et al. 2012, Barac et al. 2003
		Indo-European	Belarusians	Belorussia	582	1.5%	Rootsi et al. 2012
		Indo-European	Russians	Russia west/central	435	1.4%	Rootsi et al. 2012, Balanovsky et al. 2008
		Indo-European	Russians	Russia South	644	0.8%	Rootsi et al. 2012, Balanovsky et al. 2008
		Indo-European	Slovaks	Slovakia	277	0.7%	Rootsi et al. 2012
		Indo-European	Russians	Russia North	380	0.3%	Rootsi et al. 2012
Turkic							
		Turkic	Bashkirs	Russia	89	3.4%	Rootsi et al. 2012
		Turkic	Chuvashes	(Russia)	197	1.5%	Rootsi et al. 2012
Uralic							
		Uralic	Hungarians	Hungary	113	1.8%	Rootsi et al. 2012
Mediterranean							
	Greek						
		Indo-European	Greeks	Greeks (Smyrna)	58	8.6%	Rootsi et al. 2012, King et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	G2-P287	Reference
		Indo-European	Cretans	Crete	361	8.3%	Rootsi et al. 2012, King et al. 2008, Martinez et al. 2007
		Indo-European	Greek Cypriots	Cyprus	629	8.3%	Voskarides et al. 2017
		Indo-European	Greeks	Greeks (Phocaea)	31	6.5%	Rootsi et al. 2012, King et al. 2011
		Indo-European	Greeks	Greece	185	3.8%	Rootsi et al. 2012, King et al. 2008
Italic							
		Indo-European	Corsicans	Corsica	330	21.2%	Rootsi et al. 2012
		Indo-European	Sardinians	Sardinia set2	519	9.6%	Rootsi et al. 2012
		Indo-European	Italians	Italy	288	9.0%	Rootsi et al. 2012
		Indo-European	Sicilians	Sicily	76	7.9%	Rootsi et al. 2012
		Indo-European	Sardinians	Sardinia set1	16	6.3%	Rootsi et al. 2012
Middle East							
Afro-Asiatic							
		Afro-Asiatic	Palestinians	Palestina	90	18.9%	Rootsi et al. 2012, Behar et al. 2010
		Afro-Asiatic	Israel	Druze	307	11.4%	Rootsi et al. 2012, Behar et al. 2010
		Afro-Asiatic	Assyrians	Syria, Iran	88	4.5%	Rootsi et al. 2012, Chiaroni et al. 2010
		Afro-Asiatic	Lebanese	Lebanon	28	3.6%	Rootsi et al. 2012
		Afro-Asiatic	Qatari	Qatar	72	2.8%	Rootsi et al. 2012, Cadenas et al. 2008
		Afro-Asiatic	Jordanians	Jordan	76	2.6%	Rootsi et al. 2012
		Afro-Asiatic	Assyrians	Iran	39	2.6%	Grugni et al. 2012
		Afro-Asiatic	Emirati	United Arab Emirates	164	1.8%	Rootsi et al. 2012, Cadenas et al. 2008

Region	Language Group	Language Family	Population	Location	Sample Size	G2-P287	Reference
		Afro-Asiatic	Yemeni	Yemen	62	1.6%	Rootsi et al. 2012, Luis et al. 2004
	Armenian						
		Indo-European	Armenians	Iran	34	11.7%	Grugni et al. 2012
	Indo-Iranian						
		Indo-European	Mazandarani	Iran	72	16.7%	Grugni et al. 2012
		Indo-European	Gilaki	Iran	64	14.1%	Grugni et al. 2012
		Indo-European	Iranians, set2	Iran	1116	8.2%	Rootsi et al. 2012
		Indo-European	Kurds	Iran	59	5.1%	Grugni et al. 2012
		Indo-European	Iranians, set1	Iran	233	4.3%	Rootsi et al. 2012, Reguero et al. 2006
		Indo-European	Kurds	Turkey (Cilicia)	30	3.3%	Rootsi et al. 2012
	Kartvelian						
		Kartvelian	Laz	Turkey	36	16.7%	Balanovski et al. 2017
	Turkic						
		Turkic	Azerbaijani	Iran	297	10.8%	Rootsi et al. 2012
		Turkic	Turks	Turkey East	208	8.7%	Rootsi et al. 2012, Cinnioglu et al. 2004
		Turkic	Turks	Turkey Central	246	8.1%	Rootsi et al. 2012, Cinnioglu et al. 2004, Myres et al. 2010
		Turkic	Turks	Turkey West	163	8.0%	Rootsi et al. 2012, Cinnioglu et al. 2004
		Turkic	Azerbaijani	Iran	63	6.4%	Grugni et al. 2012
		Turkic	Turkmen	Iran	68	5.7%	Grugni et al. 2012
		Turkic	Azerbaijani East	Iran	21	4.8%	Di Cristofaro et al. 2013
		Turkic	Tatars	(Russia)	162	2.5%	Rootsi et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	G2-P287	Reference
	Afro-Asiatic						
		Afro-Asiatic	Egyptians	Egypt	147	8.2%	Rootsi et al. 2012, Luis et al. 2004
		Afro-Asiatic	Berbers	Morocco	266	1.5%	Rootsi et al. 2012, Flores et al. 2004
Scandinavia							
	Germanic						
		Indo-European	Danes	Denmark	110	1.8%	Rootsi et al. 2012
South Asia							
	Dravidian						
		Dravidian	Brahui	Pakistan	25	12.0%	Di Cristofaro et al. 2013
	Indo-Iranian						
		Indo-European	Kalash	Pakistan	20	20.0%	Di Cristofaro et al. 2013
		Indo-European	Pashtuns (Pathans)	Pakistan	20	10.0%	Di Cristofaro et al. 2013
		Indo-European	Pakistani	Pakistan	176	5.7%	Rootsi et al. 2012, Sengupta et al. 2006
		Indo-European	Parsi	India	41	2.4%	Rootsi et al. 2012, Kivisid et al. 2003
	Isolate						
		Isolate	Burusho	Pakistan	20	5.0%	Di Cristofaro et al. 2013
Western Europe							
	Germanic						
		Indo-European	Tyroloans	Tyrol	2379	8.6%	Berger et al. 2013
		Indo-European	Austrians	Austria	18	5.6%	Rootsi et al. 2012
		Indo-European	Germans	Germany	321	4.4%	Rootsi et al. 2012
		Indo-European	Flemish	Belgium	773	3.0%	Larmuseau et al. 2014

Region	Language Group	Language Family	Population	Location	Sample Size	G2-P287	Reference
		Indo-European	Dutch	Netherlands	87	1.1%	Rootsi et al. 2012
	Italic						
		Indo-European	Iberians	Western Iberia	149	6.0%	Rootsi et al. 2012, Flores et al. 2004
		Indo-European	French	France, Provence	368	4.4%	Rootsi et al. 2012
		Indo-European	French	France	93	4.3%	Rootsi et al. 2012
		Indo-European	Iberians	Central Iberia	133	3.8%	Rootsi et al. 2012, Flores et al. 2004
		Indo-European	Iberians	Eastern Iberia	206	3.4%	Rootsi et al. 2012, Flores et al. 2004
		Indo-European	Iberians	Southern Iberia	328	3.0%	Rootsi et al. 2012, Flores et al. 2004
		Indo-European	Iberians	Northern Iberia	286	2.8%	Rootsi et al. 2012, Flores et al. 2004

Supplementary Table 8.4. Distribution of Ancient Haplogroup G-M201 Mutations (Time Perspective).

Region	Death	Master ID	Culture	Country	Location	Mutation	Reference
Caucasus							
	5148	ARM002	Bronze Age	Armenia	South Caucasus mountains, Kaps	G2b-M3115	Wang et al. 2019; Reich Dataset V42.4 (2020)
	5083	I6272	Bronze Age	Russia	Klady, Dlinnaya Polyana	G2a-PF3147	Wang et al. 2019; Reich Dataset V42.4 (2020)
	4950	ALX002	Bronze Age	Azerbaijan	Alkhantepe	G1-M342	Skourtanioti et al. 2020
Central Asia							
	3750	I7420	Bronze Age	Uzbekistan	Sappali Tepe	G2a-PF3147	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
Eastern Europe							
	7900	I0698	Neolithic	Bulgaria	Yabalkovo	G2a-L91	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	7828	I3879	Neolithic	Bulgaria	Malak Preslavets	G2a-P303	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	7807	I0676	Neolithic	Macedonia	Skopje, Sopište, Govrlevo	G2a-P303	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	7752	I1295	Neolithic	Bulgaria	Malak Preslavets	G2a-P303	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	7621	I2532	Neolithic	Romania	Cotatcu	G2a-P303	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	7600	I1880	Neolithic	Hungary	Lánycsók, Gata-Csátola	G2a-L30	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	7580	I1877	Neolithic	Hungary	Alsónyék-Bátaszék, Mérnöki telep	G2a-L30	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	7551	I5072	Neolithic	Croatia	Kargadur	G2a-PF3147	Mathieson et al. 2018; Reich Dataset V42.4 (2020)

Region	Death	Master ID	Culture	Country	Location	Mutation	Reference
	7544	I1876	Neolithic	Hungary	Alsónyék-Bátaszék, Mérnöki telep	G2a-PF3170	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	7505	I2521	Neolithic	Bulgaria	Veliko Tarnovo, Dzhulyunitsa	G2a-P303	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	7440	I0633	Neolithic	Serbia	Vojvodina, Hrtkovci, Gomolova	G2a-PF3147	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	7150	I1896	Neolithic	Hungary	Szederkény Kukorica-dűlő	G2a-P303	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	7142	I2739	Neolithic	Hungary	Alsónyék-Bátaszék, Mérnöki telep	G2a-L30	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	7050	I2744	Neolithic	Hungary	Cegléd 4/1	G2a-P303	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	7050	I1882	Neolithic	Hungary	Budakeszi, Szőlőskert-Tangazdaság	G2a-P303	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	7050	I2743	Neolithic	Hungary	Cegléd 4/1	G2a-P303	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	7028	I1904	Neolithic	Hungary	Bátaszék, Lajvér	G2a-PF3170	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	7026	I5077	Neolithic	Croatia	Osijek, Hermanov Vinograd	G2a-PF3147	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	6977	I1889	Neolithic	Hungary	Szederkény Kukorica-dűlő	G2a-PF3147	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	6889	I1893	Neolithic	Hungary	Alsónyék-Elkerülő 2	G2a-L30	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	6615	I2431	Copper Age	Bulgaria	Ivanovo	G2a-P303	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	6600	I1901	Neolithic	Hungary	Veszprém, Jutasi út	G2a-PF3170	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	6557	I0634	Neolithic	Serbia	Vojvodina, Hrtkovci, Gomolova	G2a-PF3147	Mathieson et al. 2018; Reich Dataset V42.4 (2020)

Region	Death	Master ID	Culture	Country	Location	Mutation	Reference
	6542	ANI160	Copper Age	Bulgaria	Varna	G2-P287	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	6483	I1131	Neolithic	Serbia	Vojvodina, Hrtkovci, Gomolova	G2a-PF3147	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	6349	I4893	Neolithic	Czech Republic	Prague 8, Kobylisy, Ke Stírce Street	G2a-PF3147	Olalde et al. 2018; Reich Dataset V42.4 (2020)
	6250	N27	Neolithic	Poland	Oslonki	G2a-P303	Fernandes et al. 2018; Reich Dataset V42.4 (2020)
	6200	I2354	Copper Age	Hungary	Pusztataskony Ledence 1	G2a-P303	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	6200	I2356	Copper Age	Hungary	Pusztataskony Ledence 1	G2a-L30	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	6200	I2395	Copper Age	Hungary	Pusztataskony Ledence 1	G2a-L30	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	6151	N26	Neolithic	Poland	Konary	G2a-P303	Fernandes et al. 2018; Reich Dataset V42.4 (2020)
	6074	N28	Neolithic	Poland	Oslonki	G2a-P303	Fernandes et al. 2018; Reich Dataset V42.4 (2020)
	5736	I1926	Neolithic	Ukraine	Verteba Cave	G2a-P303	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	5735	I2110	Neolithic	Ukraine	Verteba Cave	G2a-P303	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	5730	I2788	Copper Age	Hungary	Abony, Turjános-dülö	G2a-P303	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	5647	I2111	Neolithic	Ukraine	Verteba Cave	G2a-P15	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	5185	I2369	Copper Age	Hungary	Budakalász, Luppa csárda	G2a-P303	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	5179	I2371	Copper Age	Hungary	Alsonemedi	G2a-PF3147	Lipson et al. 2017; Reich Dataset V42.4 (2020)

Region	Death	Master ID	Culture	Country	Location	Mutation	Reference
	5100	I5117	Yamnaya	Hungary	Mezőcsát -Hörcsögös halom alatt	G2a-L91	Olalde et al. 2018; Reich Dataset V42.4 (2020)
	5100	I5118	Yamnaya	Hungary	Mezőcsát -Hörcsögös halom alatt	G2a-L91	Olalde et al. 2018; Reich Dataset V42.4 (2020)
	5093	I2366	Copper Age	Hungary	Budakalász, Luppá csárda	G2a-L497	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	5081	I2367	Copper Age	Hungary	Budakalász, Luppá csárda	G2a-P303	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	5025	I2368	Copper Age	Hungary	Budakalász, Luppá csárda	G2a-P303	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	4758	I2510	Bronze Age	Bulgaria	Veliko Tarnovo, Dzhulyunitsa	G2a-L91	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	4677	I2792	Neolithic	Croatia	Vučedol Tell	G2a-L91	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	4380	I3528	Bronze Age	Hungary	Budakalász, Luppá csárda	G2a-L91	Olalde et al. 2018; Reich Dataset V42.4 (2020)
	4250	I4141	Bronze Age	Czech Republic	Moravská Nová Ves	G2a-L91	Olalde et al. 2018; Reich Dataset V42.4 (2020)
	3693	RISE374	Bronze Age	Hungary	Szöreg-C, Sziv Utca	G2a-L91	Allentoft et al. 2015; Reich Dataset V42.4 (2020)
Mediterranean							
	7496	R9	Neolithic	Italy	Grotta Continenza	G2a-L91	Antonio et al. 2019; Reich Dataset V42.4 (2020)
	6063	Klei10	Neolithic	Greece	Kleitós	G2a-L91	Hofmanova et al. 2016; Reich Dataset V42.4 (2020)
	5950	I15947	Neolithic	Italy	Sardinia, Anghelu Ruju	G2a-L30	Fernandes et al. 2020
	5481	LON003_LON004	Neolithic	Italy	Sardinia, Grutta I de Longu Fresu	G2a2b2a-P303	Marcus et al. 2020
	5307	NOE001	Neolithic	Italy	Sardinia, Noeddale	G2a2a1a2-L91	Marcus et al. 2020

Region	Death	Master ID	Culture	Country	Location	Mutation	Reference
	5244	Iceman	Neolithic	Italy	Trentino-South Tyrol, Oetz valley	G2a-L91	Keller et al. 2012; Reich Dataset V42.4 (2020)
	4865	R4	Copper Age	Italy	Grotta Continenza	G2a-CTS2488	Antonio et al. 2019; Reich Dataset V42.4 (2020)
	4408	I16164	Copper Age	Italy	Sardinia, Sa Ucca de su Tintirriolu	G2a-L30	Fernandes et al. 2020
	4331	I14677	Copper Age	Italy	Sardinia, Serra Crabiles	G2a-L91	Fernandes et al. 2020
	4288	I15942	Copper Age	Italy	Sardinia, Anghelu Ruju	G2a-L91	Fernandes et al. 2020
	4280	I14678	Copper Age	Italy	Sardinia, Serra Crabiles	G2a-L91	Fernandes et al. 2020
	4150	R29	Copper Age	Italy	Su Crocefissu	G2a-CTS2488	Antonio et al. 2019; Reich Dataset V42.4 (2020)
	3917	SEC002	Neolithic	Italy	Sardinia, Serra Crabiles, t.3	G2a2a1a2-L91	Marcus et al. 2020
	3895	I9130	Bronze Age	Greece	Phaestos, South-western Crete	G2a-P303	Lazaridis et al. 2017; Reich Dataset V42.4 (2020)
	3835	SEC001	Neolithic	Italy	Sardinia, Serra Crabiles, t.3	G2a2a1a2-L91	Marcus et al. 2020
	3509	I3125	Bronze Age	Italy	Sicily, Buffa	G2a-P303	Fernandes et al. 2020
	3403	I10365	Bronze Age	Italy	Sardinia, Seulo	G2a-L91	Fernandes et al. 2020
	3250	I10373	Bronze Age	Italy	Sicily, Marcita	G2a-P303	Fernandes et al. 2020
	2997	I3642	Bronze Age	Italy	Sardinia, Alghero	G2a-L30	Fernandes et al. 2020
	2961	ORC006	Bronze Age	Italy	Sardinia, S'Orcu 'e Tueri	G2a2b2b-PF3359	Marcus et al. 2020
	2952	MA112.ISR001	Bronze Age	Italy	Sardinia, Is Arutas	G2a2b2b-PF3359	Marcus et al. 2020
	2937	I3876	Bronze Age	Italy	Sicily, Marcita	G2a-P303	Fernandes et al. 2020
	2925	I10364	Bronze Age	Italy	Sardinia, Alghero	G2a-L30	Fernandes et al. 2020
Middle East	10076	Bon004	Neolithic	Turkey	Boncuklu	G2a-L30	Kilinc et al. 2016; Reich Dataset V42.4 (2020)

Region	Death	Master ID	Culture	Country	Location	Mutation	Reference
	10032	Bon001	Neolithic	Turkey	Boncuklu	G2a-L30	Kilinc et al. 2016; Reich Dataset V42.4 (2020)
	10000	ZKO	Neolithic	Turkey	Boncuklu	G2a-CTS2488	Feldman et al. 2019a; Reich Dataset V42.4 (2020)
	9219	WC1	Neolithic	Iran	Wezmeh Cave, Central Zagros	G2b-M3115	Broushaki et al. 2016; Reich Dataset V42.4 (2020)
	8505	Tep003	Neolithic	Turkey	Tepecik Ciftlik	G2a-PF3147	Kilinc et al. 2016; Reich Dataset V42.4 (2020)
	8300	I1103	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	G2a-L91	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	8300	I1099	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	G2a-L91	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	8288	I1097	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	G2a-P303	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	8281	I1583	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	G2a-L91	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	8279	Bar31	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	G2a-L30	Hofmanova et al. 2016; Reich Dataset V42.4 (2020)
	8273	I0744	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	G2a-P303	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	7950	I0727	Neolithic	Turkey	Mentese	G2a-P15	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	7930	I0746	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	G2a-P303	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	7870	I0723	Neolithic	Turkey	Mentese	G2a-PF3147	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	7698	I1671	Neolithic	Iran	Seh Gabi	G2a-P15	Lazaridis et al. 2016; Reich Dataset V42.4 (2020)
	6044	KRD002	Neolithic	Turkey	Tell Kurdu	G2a-CTS4367	Skourtanioti et al. 2020

Region	Death	Master ID	Culture	Country	Location	Mutation	Reference
	5836	I1674	Copper Age	Iran	Seh Gabi	G1-M285	Lazaridis et al. 2016; Reich Dataset V42.4 (2020)
	4906	ART004	Neolithic	Turkey	Arslantepe	G-M201	Skourtanioti et al. 2020
	4796	CBT013	Neolithic	Turkey	Çamlıbel Tarlası	G2a-M406	Skourtanioti et al. 2020
	4787	CBT015	Neolithic	Turkey	Çamlıbel Tarlası	G2a-M406	Skourtanioti et al. 2020
	4767	CBT014	Neolithic	Turkey	Çamlıbel Tarlası	G2a-M406	Skourtanioti et al. 2020
	4748	IKI037	Neolithic	Turkey	İkiztepe	G2a-M406	Skourtanioti et al. 2020
	4713	CBT005	Neolithic	Turkey	Çamlıbel Tarlası	G2a-M406	Skourtanioti et al. 2020
	4614	ART024	Neolithic	Turkey	Arslantepe	G2a-M406	Skourtanioti et al. 2020
	4573	ART014	Neolithic	Turkey	Arslantepe	G2a-M406	Skourtanioti et al. 2020
	3800	MA2208	Bronze Age	Turkey	Kalehöyük	G2a-L30	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
	3667	ETM018	Bronze Age	Syria	Ebla	G2-P287	Skourtanioti et al. 2020
South Asia							
	2710	I8246	Iron Age	Pakistan	Swat Valley, Aligrama	G2a-PF3147	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
Western Europe							
	7136	mur	Neolithic	Spain	Andalusia, Murcia, Lagos de Zuheros	G2a-PF3147	Valdiosera et al. 2018; Reich Dataset V42.4 (2020)
	7125	I2020	Neolithic	Germany	Halberstadt-Sonntagsfeld	G2a-PF3147	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	7125	I2026	Neolithic	Germany	Halberstadt-Sonntagsfeld	G2a-PF3147	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	7125	I2021	Neolithic	Germany	Halberstadt-Sonntagsfeld	G2a-PF3147	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	7074	atp005	Neolithic	Spain	Atapuerca, El Portalón	G2a-PF3147	Valdiosera et al. 2018; Reich Dataset V42.4 (2020)

Region	Death	Master ID	Culture	Country	Location	Mutation	Reference
	7061	I0056	Neolithic	Germany	Halberstadt-Sonntagsfeld	G2a-PF3147	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	7056	I2037	Neolithic	Germany	Halberstadt-Sonntagsfeld	G2a-PF3147	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	7056	I0048	Neolithic	Germany	Halberstadt-Sonntagsfeld	G2a-PF3170	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	7037	I0659	Neolithic	Germany	Halberstadt-Sonntagsfeld	G2a-PF3170	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	7035	FUC003	Neolithic	Spain	Fuente Celada	G2a-PF3147	Villalba-Mouco et al. 2019; Reich Dataset V42.4 (2020)
	6976	I0821	Neolithic	Germany	Halberstadt-Sonntagsfeld	G2a-PF3170	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	6961	HBS007	Neolithic	Germany	Halberstadt	G2a-PF3147	Rivollat et al. 2020
	6950	I5204	Neolithic	Austria	Schletz	G2a-P303	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	6855	HBS002	Neolithic	Germany	Halberstadt	G2a-L30	Rivollat et al. 2020
	6623	GRG027	Neolithic	France	Gurgy "les Noisats"	G2a-P303	Rivollat et al. 2020
	6546	GRG057	Neolithic	France	Gurgy "les Noisats"	G2a-P303	Rivollat et al. 2020
	6500	ROS57	Neolithic	France	Rosheim	G2a-P303	Brunel et al. 2020
	6495	FLR003	Neolithic	France	Fleury-sur-Orne	G2a-PF3147	Rivollat et al. 2020
	6367	GRG016	Neolithic	France	Gurgy "les Noisats"	G2a-P303	Rivollat et al. 2020
	6362	SX11	Neolithic	Switzerland	Niederried Ursisbalm (CH)	G2a-P303	Furtwangler et al. 2020
	6340	FLR010	Neolithic	France	Fleury-sur-Orne	G2a-PF3147	Rivollat et al. 2020
	6335	FLR007	Neolithic	France	Fleury-sur-Orne	G2a-PF3147	Rivollat et al. 2020
	6330	FLR005	Neolithic	France	Fleury-sur-Orne	G2a-PF3147	Rivollat et al. 2020
	6060	TOR.5	Neolithic	Spain	El Toro	G2a-P303	Fregel et al. 2018
	5588	COV20126	Neolithic	Spain	Lucena, Covacha del Angel	G2a-L30	Gonzales Fortes et al. 2019; Reich Dataset V42.4 (2020)

Region	Death	Master ID	Culture	Country	Location	Mutation	Reference
	5540	I7601	Neolithic	Spain	Alicante, Alcoi, Llometes	G2a-PF3147	Olalde et al. 2019; Reich Dataset V42.4 (2020)
	5450	I7598	Neolithic	Spain	Alicante, Alcoi, Llometes	G2a-PF3147	Olalde et al. 2019; Reich Dataset V42.4 (2020)
	5308	PEI2	Neolithic	France	Villedubert	G2a-PF3147	Brunel et al. 2020
	5216	MX219	Neolithic	Switzerland	Oberbipp Horgen (CH)	G2a-PF3147	Furtwangler et al. 2020
	5163	I0551	Neolithic	Germany	Salzmünde-Schiepzig	G2a-PF3147	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	5126	BOU1	Neolithic	France	Corconne	G2a-P15	Brunel et al. 2020
	5103	BOU4	Neolithic	France	Corconne	G2a-PF3147	Brunel et al. 2020
	5102	MX150	Neolithic	Switzerland	Oberbipp Horgen (CH)	G2a-L91	Furtwangler et al. 2020
	5050	I11600	Neolithic	Portugal	Torres Vedras, Cabeço da Arruda I	G2a-PF3147	Martiniano et al. 2017; Reich Dataset V42.4 (2020)
	5037	MX183	Neolithic	Switzerland	Oberbipp Horgen (CH)	G2a-L91	Furtwangler et al. 2020
	5035	BOU11	Neolithic	France	Corconne	G2a-FGC595	Brunel et al. 2020
	5031	MX182	Neolithic	Switzerland	Oberbipp Horgen (CH)	G2a-L91	Furtwangler et al. 2020
	5029	BOU9	Neolithic	France	Corconne	G2a-P15	Brunel et al. 2020
	4955	I3276	Copper Age	Spain	Basque Country, Alava, Alto de la Huesera	G2a-PF3147	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	4930	MX213	Neolithic	Switzerland	Oberbipp Horgen (CH)	G2a-L91	Furtwangler et al. 2020
	4926	Aes4	Neolithic	Switzerland	Aesch (CH)	G2a-L91	Furtwangler et al. 2020
	4917	Aes1	Neolithic	Switzerland	Aesch (CH)	G2a-L91	Furtwangler et al. 2020
	4908	MX187	Neolithic	Switzerland	Oberbipp Horgen (CH)	G2a-L91	Furtwangler et al. 2020
	4900	I10280	Neolithic	Spain	Barcelona, Cova de la Guineu	G2a-P303	Olalde et al. 2019; Reich Dataset V42.4 (2020)
	4898	Aes14	Neolithic	Switzerland	Aesch (CH)	G2a-L91	Furtwangler et al. 2020
	4886	RA58	Neolithic	Switzerland	Muttenz (CH)	G2a-PF3147	Furtwangler et al. 2020

Region	Death	Master ID	Culture	Country	Location	Mutation	Reference
	4848	I1842	Copper Age	Spain	Basque Country, Alava, Las Yurdinas II	G2a-PF3147	Olalde et al. 2019; Reich Dataset V42.4 (2020)
	4759	Aes6	Neolithic	Switzerland	Aesch (CH)	G2a-PF3147	Furtwangler et al. 2020
	4699	I8569	Copper Age	Spain	Castel, Alcal de Xivert, Cova dels Diablets	G2a-PF3147	Olalde et al. 2019; Reich Dataset V42.4 (2020)
	4694	Aes22	Neolithic	Switzerland	Aesch (CH)	G2a-L91	Furtwangler et al. 2020
	4650	I7587	Neolithic	Spain	Córdoba, Lucena, La Sima de la Cueva del Ángel	G2a-L30	Olalde et al. 2019; Reich Dataset V42.4 (2020)
	4650	I8156	Neolithic	Spain	Córdoba, Lucena, Sima del Ángel	G2a-P15	Olalde et al. 2019; Reich Dataset V42.4 (2020)
	4650	I8199	Neolithic	Spain	Córdoba, Lucena, Sima del Ángel	G2a-P303	Olalde et al. 2019; Reich Dataset V42.4 (2020)
	4638	I11305	Neolithic	Spain	Barcelona, Cova de la Guineu	G2a-PF3147	Olalde et al. 2019; Reich Dataset V42.4 (2020)
	4588	I8365	Neolithic	Spain	Córdoba, Lucena, Sima del Ángel	G2a-P303	Olalde et al. 2019; Reich Dataset V42.4 (2020)
	4573	I1314	Copper Age	Spain	Burgos, Atapuerca, El Mirador Cave	G2a-L30	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	4573	I1302	Copper Age	Spain	Burgos, Atapuerca, El Mirador Cave	G2a-L30	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	4448	MX298	Neolithic	Switzerland	Wartau (CH)	G2a-P303	Furtwangler et al. 2020
	4288	UNTA58_68Sk1	Bronze Age	Germany	Haunstetten-Unterer Talweg 58-62	G2a-PF3147	Mittnik et al. 2019; Reich Dataset V42.4 (2020)
	3940	I6604	Copper Age	Spain	Madrid, San Fernando de Henares, Camino de las Yeseras	G2a-PF3147	Olalde et al. 2018; Reich Dataset V42.4 (2020)

Supplementary Table 8.5. Contemporary Distribution of the G2a-L91 Mutation.

Region	Language Group	Language Family	Population	Location	Sample Size	G2a-L91	Reference
Caucasus							
	Armenian						
		Indo-European	Armenians	Caucasus South	426	0.9%	Rootsi et al. 2012, Yunusbaev et al. 2011
Eastern Europe							
	Slavic						
		Indo-European	Czechs	Czech Republic	34	2.9%	Rootsi et al. 2012
		Indo-European	Bulgarians	Bulgaria	809	0.9%	Rootsi et al. 2012
Mediterranean							
	Greek						
		Indo-European	Greek Cypriots	Cyprus	629	1.3%	Voskarides et al. 2017
		Indo-European	Cretans	Crete	361	0.8%	Rootsi et al. 2012, King et al. 2008, Martinez et al. 2007
	Italic						
		Indo-European	Corsicans	Corsica	330	11.2%	Rootsi et al. 2012
		Indo-European	Sardinians	Sardinia set2	519	6.0%	Rootsi et al. 2012
		Indo-European	Italians	Italy	288	0.3%	Rootsi et al. 2012
Middle East							
	Afro-Asiatic						
		Afro-Asiatic	Israel	Druze	307	0.3%	Rootsi et al. 2012, Behar et al. 2010
	Indo-Iranian						
		Indo-European	Iranians, set2	Iran	1116	0.1%	Rootsi et al. 2012
	Turkic						

Region	Language Group	Language Family	Population	Location	Sample Size	G2a-L91	Reference
North Africa		Turkic	Azerbaijani	Iran	297	1.0%	Rootsi et al. 2012
	Afro-Asiatic						
		Afro-Asiatic	Egyptians	Egypt	147	4.1%	Rootsi et al. 2012, Luis et al. 2004
Western Europe		Afro-Asiatic	Berbers	Morocco	266	0.8%	Rootsi et al. 2012, Flores et al. 2004
	Germanic						
		Indo-European	Germans	Germany	321	0.3%	Rootsi et al. 2012
	Italic						
		Indo-European	Iberians	Northern Iberia	286	1.0%	Rootsi et al. 2012, Flores et al. 2004
		Indo-European	French	France, Provence	368	0.8%	Rootsi et al. 2012
		Indo-European	Iberians	Western Iberia	149	0.7%	Rootsi et al. 2012, Flores et al. 2004
	Indo-European	Iberians	Southern Iberia	328	0.3%	Rootsi et al. 2012, Flores et al. 2004	

Supplementary Table 8.6. Contemporary Distribution of the G2a-L497 Mutation.

Region	Language Group	Language Family	Population	Location	Sample Size	G2a-L497	Reference
Caucasus							
	Turkic						
		Turkic	Kumyks	Daghestan	21	4.8%	Karafet et al. 2016
Eastern Europe							
	Italic						
		Indo-European	Moldovans	Moldavia	59	3.4%	Rootsi et al. 2012
		Indo-European	Romanians	Romania	336	1.8%	Rootsi et al. 2012
	Slavic						
		Indo-European	Bulgarians	Bulgaria	809	1.9%	Rootsi et al. 2012
		Indo-European	Croatians	Croatia	377	1.6%	Rootsi et al. 2012, Barac et al. 2003
		Indo-European	Ukrainians	Ukraine	597	0.5%	Rootsi et al. 2012
		Indo-European	Slovaks	Slovakia	277	0.4%	Rootsi et al. 2012
		Indo-European	Russians	Russia North	380	0.3%	Rootsi et al. 2012
		Indo-European	Russians	Russia west/central	435	0.2%	Rootsi et al. 2012, Balanovsky et al. 2008
	Turkic						
		Turkic	Chuvashes	(Russia)	197	0.5%	Rootsi et al. 2012
	Uralic						
		Uralic	Hungarians	Hungary	113	0.9%	Rootsi et al. 2012
Mediterranean							
	Greek						
		Indo-European	Greek Cypriots	Cyprus	629	0.3%	Voskarides et al. 2017

Region	Language Group	Language Family	Population	Location	Sample Size	G2a-L497	Reference
	Italic	Indo-European	Cretans	Crete	361	0.3%	Rootsi et al. 2012, King et al. 2008, Martinez et al. 2007
		Indo-European	Corsicans	Corsica	330	5.2%	Rootsi et al. 2012
		Indo-European	Italians	Italy	288	2.8%	Rootsi et al. 2012
		Indo-European	Sicilians	Sicily	76	1.3%	Rootsi et al. 2012
Middle East		Indo-European	Sardinians	Sardinia set2	519	0.4%	Rootsi et al. 2012
	Turkic						
		Turkic	Turks	Turkey West	163	0.6%	Rootsi et al. 2012, Cinnioglu et al. 2004
Scandinavia	Germanic						
		Indo-European	Danes	Denmark	110	1.8%	Rootsi et al. 2012
Western Europe	Germanic						
		Indo-European	Tyrololeans	Tyrol	2379	8.6%	Berger et al. 2013
		Indo-European	Germans	Germany	321	3.4%	Rootsi et al. 2012
	Italic						
		Indo-European	French	France	93	2.2%	Rootsi et al. 2012
		Indo-European	Iberians	Western Iberia	149	2.0%	Rootsi et al. 2012, Flores et al. 2004
		Indo-European	Iberians	Eastern Iberia	206	1.9%	Rootsi et al. 2012, Flores et al. 2004
		Indo-European	French	France, Provence	368	1.6%	Rootsi et al. 2012
		Indo-European	Iberians	Southern Iberia	328	1.2%	Rootsi et al. 2012, Flores et al. 2004

Region	Language Group	Language Family	Population	Location	Sample Size	G2a-L497	Reference
		Indo-European	Iberians	Northern Iberia	286	1.0%	Rootsi et al. 2012, Flores et al. 2004
		Indo-European	Iberians	Central Iberia	133	0.8%	Rootsi et al. 2012, Flores et al. 2004

Supplementary Table 8.7. Contemporary Distribution of the G2a-L406 Mutation.

Region	Language Group	Language Family	Population	Location	Sample Size	G2a-L406	Reference
Caucasus							
	Armenian						
		Indo-European	Armenians Adygei	Russia: Adygea	49	6.1%	Balanovski et al. 2017
		Indo-European	Armenians Erzurum	Georgia	99	4.0%	Balanovski et al. 2017
		Indo-European	Armenians Krasnodar	Russia: Krasnodar	117	3.4%	Balanovski et al. 2017
		Indo-European	Armenians Don	Russia: Rostov and Myasnikovsky Regions	92	2.2%	Balanovski et al. 2017
		Indo-European	Armenians	Caucasus South	426	2.1%	Rootsi et al. 2012, Yunusbaev et al. 2011
	Kartvelian						
		Kartvelian	Imereti	Georgia	62	1.6%	Balanovski et al. 2017
	North Caucasian						
		North Caucasian	Chamalals	Caucasus Northeast	27	18.5%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Kabardians	Caucasus Northwest	141	0.7%	Rootsi et al. 2012, Yunusbaev et al. 2001
	Turkic						
		Turkic	Kumyks	Caucasus Northeast	76	1.3%	Rootsi et al. 2012, Yunusbaev et al. 2001
Central Asia							
	Indo-Iranian						
		Indo-European	Tajik-Badakhshan	Afghanistan	37	2.7%	Di Cristofaro et al. 2013
	Turkic						

Region	Language Group	Language Family	Population	Location	Sample Size	G2a-L406	Reference
Eastern Europe	Slavic	Turkic	Uzbeks	Uzbekistan-Xorezm Region	98	1.0%	Zhabagin et al. 2017
		Indo-European	Slovenes	Slovenia	102	2.0%	Rootsi et al. 2012
	Indo-European	Poles	Poland	205	0.5%	Rootsi et al. 2012	
	Indo-European	Ukrainians	Ukraine	597	0.2%	Rootsi et al. 2012	
	Indo-European	Bulgarians	Bulgaria	809	0.1%	Rootsi et al. 2012	
	Uralic	Uralic	Hungarians	Hungary	113	0.9%	Rootsi et al. 2012
Mediterranean	Greek	Indo-European	Greeks	Greeks (Smyrna)	58	3.4%	Rootsi et al. 2012, King et al. 2011
		Indo-European	Greeks	Greeks (Phocaea)	31	3.2%	Rootsi et al. 2012, King et al. 2011
	Indo-European	Greek Cypriots	Cyprus	629	2.4%	Voskarides et al. 2017	
	Indo-European	Cretans	Crete	361	1.9%	Rootsi et al. 2012, King et al. 2008, Martinez et al. 2007	
	Indo-European	Greeks	Greece	185	1.6%	Rootsi et al. 2012, King et al. 2008	
	Italic	Indo-European	Sicilians	Sicily	76	2.6%	Rootsi et al. 2012
	Indo-European	Italians	Italy	288	2.4%	Rootsi et al. 2012	
	Indo-European	Sardinians	Sardinia set2	519	0.8%	Rootsi et al. 2012	
	Indo-European	Corsicans	Corsica	330	0.3%	Rootsi et al. 2012	

Region	Language Group	Language Family	Population	Location	Sample Size	G2a-L406	Reference
Afro-Asiatic							
		Afro-Asiatic	Israel	Druze	307	8.1%	Rootsi et al. 2012, Behar et al. 2010
		Afro-Asiatic	Yemeni	Yemen	62	1.6%	Rootsi et al. 2012, Luis et al. 2004
		Afro-Asiatic	Jordanians	Jordan	76	1.3%	Rootsi et al. 2012
		Afro-Asiatic	Emirati	United Arab Emirates	164	0.6%	Rootsi et al. 2012, Cadenas et al. 2008
Indo-Iranian							
		Indo-European	Iranians, set1	Iran	233	0.9%	Rootsi et al. 2012, Reguero et al. 2006
		Indo-European	Iranians, set2	Iran	1116	0.5%	Rootsi et al. 2012
Turkic							
		Turkic	Turks	Turkey West	163	2.5%	Rootsi et al. 2012, Cinnioglu et al. 2004
		Turkic	Turks	Turkey Central	246	2.4%	Rootsi et al. 2012, Cinnioglu et al. 2004, Myres et al. 2010
		Turkic	Turks	Turkey East	208	2.4%	Rootsi et al. 2012, Cinnioglu et al. 2004
		Turkic	Azerbaijani	Iran	297	2.0%	Rootsi et al. 2012
		Turkic	Turkmen	Iran	68	1.4%	Grugni et al. 2012
North Africa							
Afro-Asiatic							
		Afro-Asiatic	Egyptians	Egypt	147	1.4%	Rootsi et al. 2012, Luis et al. 2004
South Asia							
Indo-Iranian							

Region	Language Group	Language Family	Population	Location	Sample Size	G2a-L406	Reference
		Indo-European	Pashtuns (Pathans)	Pakistan	20	5.0%	Di Cristofaro et al. 2013
		Indo-European	Pakistani	Pakistan	176	0.6%	Rootsi et al. 2012, Sengupta et al. 2006
Western Europe							
	Germanic						
		Indo-European	Germans	Germany	321	0.3%	Rootsi et al. 2012
	Italic						
		Indo-European	Iberians	Western Iberia	149	1.3%	Rootsi et al. 2012, Flores et al. 2004
		Indo-European	French	France	93	1.1%	Rootsi et al. 2012
		Indo-European	Iberians	Central Iberia	133	0.8%	Rootsi et al. 2012, Flores et al. 2004
		Indo-European	Iberians	Northern Iberia	286	0.7%	Rootsi et al. 2012, Flores et al. 2004
		Indo-European	Iberians	Eastern Iberia	206	0.5%	Rootsi et al. 2012, Flores et al. 2004

Supplementary Table 8.8. Contemporary Distribution of the G2a-M527 Mutation.

Region	Language Group	Language Family	Population	Location	Sample Size	G2a-M527	Reference
Baltic							
	Uralic						
		Uralic	Estonians	Estonia	238	0.4%	Rootsi et al. 2012
Caucasus							
	Armenian						
		Indo-European	Armenians	Caucasus South	426	0.2%	Rootsi et al. 2012, Yunusbaev et al. 2011
	Kartvelian						
		Kartvelian	Georgians	Caucasus South	66	1.5%	Rootsi et al. 2012, Yunusbaev et al. 2001
	North Caucasian						
		North Caucasian	Abazins	Caucasus Northwest	90	2.2%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Abkhaz	Caucasus South	162	1.2%	Rootsi et al. 2012, Yunusbaev et al. 2001
	Turkic						
		Turkic	Nogais	Caucasus Northwest	87	1.1%	Rootsi et al. 2012, Yunusbaev et al. 2001
Eastern Europe							
	Slavic						
		Indo-European	Ukrainians	Ukraine	597	0.7%	Rootsi et al. 2012
		Indo-European	Russians	Russia west/central	435	0.2%	Rootsi et al. 2012, Balanovsky et al. 2008
		Indo-European	Belarusians	Belorussia	582	0.2%	Rootsi et al. 2012
		Indo-European	Bulgarians	Bulgaria	809	0.1%	Rootsi et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	G2a-M527	Reference
Mediterranean							
	Greek						
		Indo-European	Greeks	Greeks (Phocaea)	31	3.2%	Rootsi et al. 2012, King et al. 2011
		Indo-European	Greeks	Greece	185	1.6%	Rootsi et al. 2012, King et al. 2008
		Indo-European	Cretans	Crete	361	0.6%	Rootsi et al. 2012, King et al. 2008, Martinez et al. 2007
		Indo-European	Greek Cypriots	Cyprus	629	0.3%	Voskarides et al. 2017
	Italic						
		Indo-European	Sardinians	Sardinia set1	16	6.3%	Rootsi et al. 2012
		Indo-European	Italians	Italy	288	1.0%	Rootsi et al. 2012
		Indo-European	Corsicans	Corsica	330	0.3%	Rootsi et al. 2012
		Indo-European	Sardinians	Sardinia set2	519	0.2%	Rootsi et al. 2012
Middle East							
	Afro-Asiatic						
		Afro-Asiatic	Palestinians	Palestina	90	1.1%	Rootsi et al. 2012, Behar et al. 2010
		Afro-Asiatic	Israel	Druze	307	1.0%	Rootsi et al. 2012, Behar et al. 2010
	Indo-Iranian						
		Indo-European	Iranians, set2	Iran	1116	0.2%	Rootsi et al. 2012
	Turkic						
		Turkic	Azerbaijani	Iran	297	2.0%	Rootsi et al. 2012
		Turkic	Tatars	(Russia)	162	0.6%	Rootsi et al. 2012
Western Europe							

Region	Language Group	Language Family	Population	Location	Sample Size	G2a-M527	Reference
	Germanic						
		Indo-European	Germans	Germany	321	0.3%	Rootsi et al. 2012
	Italic						
		Indo-European	French	France	93	1.1%	Rootsi et al. 2012
		Indo-European	French	France, Provence	368	0.5%	Rootsi et al. 2012
		Indo-European	Iberians	Eastern Iberia	206	0.5%	Rootsi et al. 2012, Flores et al. 2004
		Indo-European	Iberians	Southern Iberia	328	0.3%	Rootsi et al. 2012, Flores et al. 2004

Supplementary Table 8.9. Distribution of Ancient Haplogroup G-M201 Mutations (Mutation Perspective).

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
Caucasus							
	G1-M342	ALX002	Bronze Age	Azerbaijan	Alkhantepe	4950	Skourtanioti et al. 2020
	G2a-PF3147	I6272	Bronze Age	Russia	Klady, Dlinnaya Polyana	5083	Wang et al. 2019; Reich Dataset V42.4 (2020)
	G2b-M3115	ARM002	Bronze Age	Armenia	South Caucasus mountains, Kaps	5148	Wang et al. 2019; Reich Dataset V42.4 (2020)
Central Asia							
	G2a-PF3147	I7420	Bronze Age	Uzbekistan	Sappali Tepe	3750	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
Eastern Europe							
	G2a-L30	I1880	Neolithic	Hungary	Lánycsók, Gata-Csátola	7600	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		I1877	Neolithic	Hungary	Alsónyék-Bátaszék, Mérnöki telep	7580	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		I2739	Neolithic	Hungary	Alsónyék-Bátaszék, Mérnöki telep	7142	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		I1893	Neolithic	Hungary	Alsónyék-Elkerülő 2	6889	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		I2356	Copper Age	Hungary	Pusztataskony Ledence 1	6200	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		I2395	Copper Age	Hungary	Pusztataskony Ledence 1	6200	Lipson et al. 2017; Reich Dataset V42.4 (2020)

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
	G2a-L497						
		I2366	Copper Age	Hungary	Budakalász, Luppacsárda	5093	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	G2a-L91						
		I0698	Neolithic	Bulgaria	Yabalkovo	7900	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I5117	Yamnaya	Hungary	Mezőcsát -Hörcsögös halom alatt	5100	Olalde et al. 2018; Reich Dataset V42.4 (2020)
		I5118	Yamnaya	Hungary	Mezőcsát -Hörcsögös halom alatt	5100	Olalde et al. 2018; Reich Dataset V42.4 (2020)
		I2510	Bronze Age	Bulgaria	Veliko Tarnovo, Dzhulyunitsa	4758	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I2792	Neolithic	Croatia	Vučedol Tell	4677	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I3528	Bronze Age	Hungary	Budakalász, Luppacsárda	4380	Olalde et al. 2018; Reich Dataset V42.4 (2020)
		I4141	Bronze Age	Czech Republic	Moravská Nová Ves	4250	Olalde et al. 2018; Reich Dataset V42.4 (2020)
		RISE374	Bronze Age	Hungary	Szöreg-C, Sziv Utca	3693	Allentoft et al. 2015; Reich Dataset V42.4 (2020)
	G2a-P15						
		I2111	Neolithic	Ukraine	Verteba Cave	5647	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	G2a-P303						
		I3879	Neolithic	Bulgaria	Malak Preslavets	7828	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I0676	Neolithic	Macedonia	Skopje, Sopište, Govrlevo	7807	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I1295	Neolithic	Bulgaria	Malak Preslavets	7752	Mathieson et al. 2018; Reich Dataset V42.4 (2020)

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
		I2532	Neolithic	Romania	Cotatcu	7621	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I2521	Neolithic	Bulgaria	Veliko Tarnovo, Dzhulyunitsa	7505	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I1896	Neolithic	Hungary	Szederkény Kukorica-dűlő	7150	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		I2744	Neolithic	Hungary	Cegléd 4/1	7050	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		I2743	Neolithic	Hungary	Cegléd 4/1	7050	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		I1882	Neolithic	Hungary	Budakeszi, Szőlőskert-Tangazdaság	7050	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		I2431	Copper Age	Bulgaria	Ivanovo	6615	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		N27	Neolithic	Poland	Oslonki	6250	Fernandes et al. 2018; Reich Dataset V42.4 (2020)
		I2354	Copper Age	Hungary	Pusztataskony Ledence 1	6200	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		N26	Neolithic	Poland	Konary	6151	Fernandes et al. 2018; Reich Dataset V42.4 (2020)
		N28	Neolithic	Poland	Oslonki	6074	Fernandes et al. 2018; Reich Dataset V42.4 (2020)
		I1926	Neolithic	Ukraine	Verteba Cave	5736	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I2110	Neolithic	Ukraine	Verteba Cave	5735	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I2788	Copper Age	Hungary	Abony, Turjános-dűlő	5730	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		I2369	Copper Age	Hungary	Budakalász, Luppacsárda	5185	Lipson et al. 2017; Reich Dataset V42.4 (2020)

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
		I2367	Copper Age	Hungary	Budakalász, Luppacsárda	5081	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		I2368	Copper Age	Hungary	Budakalász, Luppacsárda	5025	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	G2a-PF3147						
		I5072	Neolithic	Croatia	Kargadur	7551	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I0633	Neolithic	Serbia	Vojvodina, Hrtkovci, Gomolova	7440	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I5077	Neolithic	Croatia	Osijek, Hermanov Vinograd	7026	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I1889	Neolithic	Hungary	Szederkény Kukoricadűlő	6977	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		I0634	Neolithic	Serbia	Vojvodina, Hrtkovci, Gomolova	6557	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I1131	Neolithic	Serbia	Vojvodina, Hrtkovci, Gomolova	6483	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I4893	Neolithic	Czech Republic	Prague 8, Kobylisy, Ke Stírce Street	6349	Olalde et al. 2018; Reich Dataset V42.4 (2020)
		I2371	Copper Age	Hungary	Alsonemedi	5179	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	G2a-PF3170						
		I1876	Neolithic	Hungary	Alsónyék-Bátaszék, Mérnöki telep	7544	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		I1904	Neolithic	Hungary	Bátaszék, Lajvér	7028	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		I1901	Neolithic	Hungary	Veszprém, Jutasi út	6600	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	G2-P287						

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
		ANI160	Copper Age	Bulgaria	Varna	6542	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Mediterranean							
	G2a2a1a2-L91						
		NOE001	Neolithic	Italy	Sardinia, Noeddale	5307	Marcus et al. 2020
		SEC002	Neolithic	Italy	Sardinia, Serra Crabiles, t.3	3917	Marcus et al. 2020
		SEC001	Neolithic	Italy	Sardinia, Serra Crabiles, t.3	3835	Marcus et al. 2020
	G2a2b2a-P303						
		LON003_LO N004	Neolithic	Italy	Sardinia, Grutta I de Longu Fresu	5481	Marcus et al. 2020
	G2a2b2b-PF3359						
		ORC006	Bronze Age	Italy	Sardinia, S'Orcu 'e Tueri	2961	Marcus et al. 2020
		MA112.ISR001	Bronze Age	Italy	Sardinia, Is Arutas	2952	Marcus et al. 2020
	G2a-CTS2488						
		R4	Copper Age	Italy	Grotta Continenza	4865	Antonio et al. 2019; Reich Dataset V42.4 (2020)
		R29	Copper Age	Italy	Su Crocefissu	4150	Antonio et al. 2019; Reich Dataset V42.4 (2020)
	G2a-L30						
		I15947	Neolithic	Italy	Sardinia, Anghelu Ruju	5950	Fernandes et al. 2020
		I16164	Copper Age	Italy	Sardinia, Sa Ucca de su Tintirriolu	4408	Fernandes et al. 2020
		I3642	Bronze Age	Italy	Sardinia, Alghero	2997	Fernandes et al. 2020
		I10364	Bronze Age	Italy	Sardinia, Alghero	2925	Fernandes et al. 2020

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
	G2a-L91						
		R9	Neolithic	Italy	Grotta Continenza	7496	Antonio et al. 2019; Reich Dataset V42.4 (2020)
		Klei10	Neolithic	Greece	Kleitos	6063	Hofmanova et al. 2016; Reich Dataset V42.4 (2020)
		Iceman	Neolithic	Italy	Trentino-South Tyrol, Oetz valley	5244	Keller et al. 2012; Reich Dataset V42.4 (2020)
		I14677	Copper Age	Italy	Sardinia, Serra Crabiles	4331	Fernandes et al. 2020
		I15942	Copper Age	Italy	Sardinia, Anghelu Ruju	4288	Fernandes et al. 2020
		I14678	Copper Age	Italy	Sardinia, Serra Crabiles	4280	Fernandes et al. 2020
	G2a-P303						
		I10365	Bronze Age	Italy	Sardinia, Seulo	3403	Fernandes et al. 2020
		I9130	Bronze Age	Greece	Phaestos, South-western Crete	3895	Lazaridis et al. 2017; Reich Dataset V42.4 (2020)
		I3125	Bronze Age	Italy	Sicily, Buffa	3509	Fernandes et al. 2020
		I10373	Bronze Age	Italy	Sicily, Marcita	3250	Fernandes et al. 2020
		I3876	Bronze Age	Italy	Sicily, Marcita	2937	Fernandes et al. 2020
Middle East							
	G1-M285						
		I1674	Copper Age	Iran	Seh Gabi	5836	Lazaridis et al. 2016; Reich Dataset V42.4 (2020)
	G2a-CTS2488						
		ZKO	Neolithic	Turkey	Boncuklu	10000	Feldman et al. 2019a; Reich Dataset V42.4 (2020)
	G2a-CTS4367						
		KRD002	Neolithic	Turkey	Tell Kurdu	6044	Skourtanioti et al. 2020

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
	G2a-L30						
		Bon004	Neolithic	Turkey	Boncuklu	10076	Kilinc et al. 2016; Reich Dataset V42.4 (2020)
		Bon001	Neolithic	Turkey	Boncuklu	10032	Kilinc et al. 2016; Reich Dataset V42.4 (2020)
		Bar31	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcın	8279	Hofmanova et al. 2016; Reich Dataset V42.4 (2020)
		MA2208	Bronze Age	Turkey	Kalehöyük	3800	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
	G2a-L91						
		I1099	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcın	8300	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
		I1103	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcın	8300	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
		I1583	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcın	8281	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	G2a-M406						
		CBT013	Neolithic	Turkey	Çamlıbel Tarlası	4796	Skourtanioti et al. 2020
		CBT015	Neolithic	Turkey	Çamlıbel Tarlası	4787	Skourtanioti et al. 2020
		CBT014	Neolithic	Turkey	Çamlıbel Tarlası	4767	Skourtanioti et al. 2020
		IKI037	Neolithic	Turkey	İkiztepe	4748	Skourtanioti et al. 2020
		CBT005	Neolithic	Turkey	Çamlıbel Tarlası	4713	Skourtanioti et al. 2020
		ART024	Neolithic	Turkey	Arslantepe	4614	Skourtanioti et al. 2020
		ART014	Neolithic	Turkey	Arslantepe	4573	Skourtanioti et al. 2020
	G2a-P15						
		I0727	Neolithic	Turkey	Mentese	7950	Mathieson et al. 2015; Reich Dataset V42.4 (2020)

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
		I1671	Neolithic	Iran	Seh Gabi	7698	Lazaridis et al. 2016; Reich Dataset V42.4 (2020)
	G2a-P303						
		I1097	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	8288	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
		I0744	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	8273	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
		I0746	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	7930	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	G2a-PF3147						
		Tep003	Neolithic	Turkey	Tepecik Ciftlik	8505	Kilinc et al. 2016; Reich Dataset V42.4 (2020)
		I0723	Neolithic	Turkey	Mentese	7870	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	G2b-M3115						
		WC1	Neolithic	Iran	Wezmeh Cave, Central Zagros	9219	Broushaki et al. 2016; Reich Dataset V42.4 (2020)
	G2-P287						
		ETM018	Bronze Age	Syria	Ebla	3667	Skourtanioti et al. 2020
	G-M201						
		ART004	Neolithic	Turkey	Arslantepe	4906	Skourtanioti et al. 2020
South Asia							
	G2a-PF3147						
		I8246	Iron Age	Pakistan	Swat Valley, Aligrama	2710	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
Western Europe							
	G2a-FGC595						
		BOU11	Neolithic	France	Corconne	5035	Brunel et al. 2020

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
G2a-L30							
		HBS002	Neolithic	Germany	Halberstadt	6855	Rivollat et al. 2020
		COV20126	Neolithic	Spain	Lucena, Covacha del Ángel	5588	Gonzales Fortes et al. 2019; Reich Dataset V42.4 (2020)
		I7587	Neolithic	Spain	Córdoba, Lucena, La Sima de la Cueva del Ángel	4650	Olalde et al. 2019; Reich Dataset V42.4 (2020)
		I1314	Copper Age	Spain	Burgos, Atapuerca, El Mirador Cave	4573	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
		I1302	Copper Age	Spain	Burgos, Atapuerca, El Mirador Cave	4573	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
G2a-L91							
		MX150	Neolithic	Switzerland	Oberbipp Horgen (CH)	5102	Furtwangler et al. 2020
		MX183	Neolithic	Switzerland	Oberbipp Horgen (CH)	5037	Furtwangler et al. 2020
		MX182	Neolithic	Switzerland	Oberbipp Horgen (CH)	5031	Furtwangler et al. 2020
		MX213	Neolithic	Switzerland	Oberbipp Horgen (CH)	4930	Furtwangler et al. 2020
		Aes4	Neolithic	Switzerland	Aesch (CH)	4926	Furtwangler et al. 2020
		Aes1	Neolithic	Switzerland	Aesch (CH)	4917	Furtwangler et al. 2020
		MX187	Neolithic	Switzerland	Oberbipp Horgen (CH)	4908	Furtwangler et al. 2020
		Aes14	Neolithic	Switzerland	Aesch (CH)	4898	Furtwangler et al. 2020
		Aes22	Neolithic	Switzerland	Aesch (CH)	4694	Furtwangler et al. 2020
G2a-P15							
		BOU1	Neolithic	France	Corconne	5126	Brunel et al. 2020
		BOU9	Neolithic	France	Corconne	5029	Brunel et al. 2020
		I8156	Neolithic	Spain	Córdoba, Lucena, Sima del Ángel	4650	Olalde et al. 2019; Reich Dataset V42.4 (2020)
G2a-P303							

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
		I5204	Neolithic	Austria	Schletz	6950	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		GRG027	Neolithic	France	Gurgy "les Noisats"	6623	Rivollat et al. 2020
		GRG057	Neolithic	France	Gurgy "les Noisats"	6546	Rivollat et al. 2020
		ROS57	Neolithic	France	Rosheim	6500	Brunel et al. 2020
		GRG016	Neolithic	France	Gurgy "les Noisats"	6367	Rivollat et al. 2020
		SX11	Neolithic	Switzerland	Niederried Ursisbalm (CH)	6362	Furtwangler et al. 2020
		TOR.5	Neolithic	Spain	El Toro	6060	Fregel et al. 2018
		I10280	Neolithic	Spain	Barcelona, Cova de la Guineu	4900	Olalde et al. 2019; Reich Dataset V42.4 (2020)
		I8199	Neolithic	Spain	Córdoba, Lucena, Sima del Ángel	4650	Olalde et al. 2019; Reich Dataset V42.4 (2020)
		I8365	Neolithic	Spain	Córdoba, Lucena, Sima del Ángel	4588	Olalde et al. 2019; Reich Dataset V42.4 (2020)
		MX298	Neolithic	Switzerland	Wartau (CH)	4448	Furtwangler et al. 2020
G2a-PF3147							
		mur	Neolithic	Spain	Andalusia, Murcia, Lagos de Zuheros	7136	Valdiosera et al. 2018; Reich Dataset V42.4 (2020)
		I2021	Neolithic	Germany	Halberstadt-Sonntagsfeld	7125	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		I2026	Neolithic	Germany	Halberstadt-Sonntagsfeld	7125	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		I2020	Neolithic	Germany	Halberstadt-Sonntagsfeld	7125	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		atp005	Neolithic	Spain	Atapuerca, El Portalón	7074	Valdiosera et al. 2018; Reich Dataset V42.4 (2020)

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
		I0056	Neolithic	Germany	Halberstadt-Sonntagsfeld	7061	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		I2037	Neolithic	Germany	Halberstadt-Sonntagsfeld	7056	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		FUC003	Neolithic	Spain	Fuente Celada	7035	Villalba-Mouco et al. 2019; Reich Dataset V42.4 (2020)
		HBS007	Neolithic	Germany	Halberstadt	6961	Rivollat et al. 2020
		FLR003	Neolithic	France	Fleury-sur-Orne	6495	Rivollat et al. 2020
		FLR010	Neolithic	France	Fleury-sur-Orne	6340	Rivollat et al. 2020
		FLR007	Neolithic	France	Fleury-sur-Orne	6335	Rivollat et al. 2020
		FLR005	Neolithic	France	Fleury-sur-Orne	6330	Rivollat et al. 2020
		I7601	Neolithic	Spain	Alicante, Alcoi, Llometes	5540	Olalde et al. 2019; Reich Dataset V42.4 (2020)
		I7598	Neolithic	Spain	Alicante, Alcoi, Llometes	5450	Olalde et al. 2019; Reich Dataset V42.4 (2020)
		PEI2	Neolithic	France	Villedubert	5308	Brunel et al. 2020
		MX219	Neolithic	Switzerland	Oberbipp Horgen (CH)	5216	Furtwangler et al. 2020
		I0551	Neolithic	Germany	Salzmünde-Schiepzig	5163	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
		BOU4	Neolithic	France	Corconne	5103	Brunel et al. 2020
		I11600	Neolithic	Portugal	Torres Vedras, Cabeço da Arruda I	5050	Martiniano et al. 2017; Reich Dataset V42.4 (2020)
		I3276	Copper Age	Spain	Basque Country, Alava, Alto de la Huesera	4955	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		RA58	Neolithic	Switzerland	Muttenz (CH)	4886	Furtwangler et al. 2020
		I1842	Copper Age	Spain	Basque Country, Alava, Las Yurdinas II	4848	Olalde et al. 2019; Reich Dataset V42.4 (2020)
		Aes6	Neolithic	Switzerland	Aesch (CH)	4759	Furtwangler et al. 2020

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
		I8569	Copper Age	Spain	Castel, Alcal de Xivert, Cova dels Diablets	4699	Olalde et al. 2019; Reich Dataset V42.4 (2020)
		I11305	Neolithic	Spain	Barcelona, Cova de la Guineu	4638	Olalde et al. 2019; Reich Dataset V42.4 (2020)
		UNTA58_68S k1	Bronze Age	Germany	Haunstetten-Unterer Talweg 58-62	4288	Mitnik et al. 2019; Reich Dataset V42.4 (2020)
		I6604	Copper Age	Spain	Madrid, San Fernando de Henares, Camino de las Yeseras	3940	Olalde et al. 2018; Reich Dataset V42.4 (2020)
	G2a-PF3170						
		I0048	Neolithic	Germany	Halberstadt-Sonntagsfeld	7056	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		I0659	Neolithic	Germany	Halberstadt-Sonntagsfeld	7037	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		I0821	Neolithic	Germany	Halberstadt-Sonntagsfeld	6976	Lipson et al. 2017; Reich Dataset V42.4 (2020)

Supplementary Table 8.10. Contemporary Distribution of the G2b-M377 Mutation.

Region	Language Group	Language Family	Population	Location	Sample Size	G2b-M377	Reference
Central Asia							
	Indo-Iranian						
		Indo-European	Pashtun-Baghlan	Afghanistan	34	14.7%	Di Cristofaro et al. 2013
		Indo-European	Pashtun-Kunduz	Afghanistan	53	11.3%	Di Cristofaro et al. 2013
		Indo-European	Pashtuns (Pathans)	Afghanistan	190	5.3%	Lacau et al. 2012
		Indo-European	Tajik-Balkh	Afghanistan	54	3.7%	Di Cristofaro et al. 2013
		Indo-European	Tajik-Badakhshan	Afghanistan	37	2.7%	Di Cristofaro et al. 2013
	Turkic						
		Turkic	Kyrgyz	Central Asia	153	0.7%	Rootsi et al. 2012
Eastern Europe							
	Slavic						
		Indo-European	Poles	Poland	205	1.0%	Rootsi et al. 2012
		Indo-European	Russians	Russia west/central	435	0.5%	Rootsi et al. 2012, Balanovsky et al. 2008
		Indo-European	Belarusians	Belorussia	582	0.2%	Rootsi et al. 2012
Middle East							
	Indo-Iranian						
		Indo-European	Iranians, set2	Iran	1116	0.1%	Rootsi et al. 2012
	Turkic						
		Turkic	Azerbaijani	Iran	63	1.6%	Grugni et al. 2012
		Turkic	Turks	Turkey East	208	0.5%	Rootsi et al. 2012, Cinnioglu et al. 2004

Region	Language Group	Language Family	Population	Location	Sample Size	G2b-M377	Reference
South Asia							
	Indo-Iranian						
		Indo-European	Pashtuns (Pathans)	Pakistan	20	5.0%	Di Cristofaro et al. 2013
		Indo-European	Pakistani	Pakistan	176	1.1%	Rootsi et al. 2012, Sengupta et al. 2006
	Isolate						
		Isolate	Burusho	Pakistan	20	5.0%	Di Cristofaro et al. 2013
Western Europe							
	Germanic						
		Indo-European	Austrians	Austria	18	5.6%	Rootsi et al. 2012
	Italic						
		Indo-European	Iberians	Central Iberia	133	0.8%	Rootsi et al. 2012, Flores et al. 2004

Supplementary Table 8.11. Contemporary Distribution of the G2a-P16 Mutation.

Region	Language Group	Language Family	Population	Location	Sample Size	G2a-P16	Reference
Caucasus							
	Armenian						
		Indo-European	Armenians	Caucasus South	426	1.2%	Rootsi et al. 2012, Yunusbaev et al. 2011
	Indo-Iranian						
		Indo-European	North Ossetians	Caucasus Northwest	132	63.6%	Rootsi et al. 2012, Yunusbaev et al. 2001
		Indo-European	South Ossetians	Caucasus South	23	43.5%	Rootsi et al. 2012, Yunusbaev et al. 2001
	Kartvelian						
		Kartvelian	Georgians	Caucasus South	66	34.8%	Rootsi et al. 2012, Yunusbaev et al. 2001
		Kartvelian	Imereti	Georgia	62	11.3%	Balanovski et al. 2017
		Kartvelian	Georgians, Eastern	Georgia	54	5.6%	Balanovski et al. 2017
	North Caucasian						
		North Caucasian	Abkhaz	Caucasus South	162	19.1%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Abazins	Caucasus Northwest	90	10.0%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Kabardians	Caucasus Northwest	141	9.9%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Lezgians	Caucasus Northeast	31	9.7%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Cherkessians	Caucasus Northwest	126	7.1%	Rootsi et al. 2012, Yunusbaev et al. 2001

Region	Language Group	Language Family	Population	Location	Sample Size	G2a-P16	Reference
		North Caucasian	Andis	Caucasus Northeast	49	6.1%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Ingush	Caucasus Northeast	105	4.8%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Adyghe	Caucasus Northwest	156	3.8%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Dargins (Dargwa)	Caucasus Northeast	68	2.9%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Chechens	Caucasus Northeast	167	0.6%	Rootsi et al. 2012, Yunusbaev et al. 2001
	Turkic						
		Turkic	Karachays	Caucasus Northwest	69	23.2%	Rootsi et al. 2012, Yunusbaev et al. 2001
		Turkic	Balkars	Caucasus Northwest	136	20.6%	Rootsi et al. 2012, Yunusbaev et al. 2001
		Turkic	Kумыks	Caucasus Northeast	76	3.9%	Rootsi et al. 2012, Yunusbaev et al. 2001
		Turkic	Nogais	Caucasus Northwest	87	3.4%	Rootsi et al. 2012, Yunusbaev et al. 2001
Central Asia							
	Indo-Iranian						
		Indo-European	Pashtuns (Pathans)	Afghanistan	190	0.5%	Lacau et al. 2012
	Turkic						
		Turkic	Kyrgyz-East	Kyrgyzstan	35	2.9%	Di Cristofaro et al. 2013
		Turkic	Kyrgyz	Central Asia	153	0.7%	Rootsi et al. 2012
Eastern Europe							
	Italic						

Region	Language Group	Language Family	Population	Location	Sample Size	G2a-P16	Reference
		Indo-European	Romanians	Romania	336	0.6%	Rootsi et al. 2012
	Mongolic						
		Mongolic	Kalmyks	(Russia)	80	1.3%	Rootsi et al. 2012
	Slavic						
		Indo-European	Russians	Russia South	644	0.5%	Rootsi et al. 2012, Balanovsky et al. 2008
		Indo-European	Russians	Russia west/central	435	0.5%	Rootsi et al. 2012, Balanovsky et al. 2008
		Indo-European	Ukrainians	Ukraine	597	0.2%	Rootsi et al. 2012
		Indo-European	Bulgarians	Bulgaria	809	0.1%	Rootsi et al. 2012
Mediterranean							
	Italic						
		Indo-European	Sicilians	Sicily	76	1.3%	Rootsi et al. 2012
		Indo-European	Corsicans	Corsica	330	0.6%	Rootsi et al. 2012
Middle East							
	Indo-Iranian						
		Indo-European	Gilaki	Iran	64	1.6%	Grugni et al. 2012
		Indo-European	Iranians, set2	Iran	1116	0.2%	Rootsi et al. 2012
	Kartvelian						
		Kartvelian	Laz	Turkey	36	11.1%	Balanovski et al. 2017
	Turkic						
		Turkic	Turks	Turkey West	163	2.5%	Rootsi et al. 2012, Cinnioglu et al. 2004
		Turkic	Tatars	(Russia)	162	1.2%	Rootsi et al. 2012
		Turkic	Turks	Turkey Central	246	1.2%	Rootsi et al. 2012, Cinnioglu et al. 2004, Myres et al. 2010

Region	Language Group	Language Family	Population	Location	Sample Size	G2a-P16	Reference
		Turkic	Turks	Turkey East	208	1.0%	Rootsi et al. 2012, Cinnioglu et al. 2004
		Turkic	Azerbaijani	Iran	297	0.3%	Rootsi et al. 2012
Western Europe							
	<i>Italic</i>						
		Indo-European	Iberians	Southern Iberia	328	0.3%	Rootsi et al. 2012, Flores et al. 2004

Supplementary Table 8.12. Contemporary Distribution of the G2a-U1 Mutation.

Region	Language Group	Language Family	Population	Location	Sample Size	G2a-U1	Reference
Baltic							
	Uralic						
		Uralic	Estonians	Estonia	238	0.8%	Rootsi et al. 2012
Caucasus							
	Armenian						
		Indo-European	Armenians	Caucasus South	426	1.4%	Rootsi et al. 2012, Yunusbaev et al. 2011
	Indo-Iranian						
		Indo-European	North Ossetians	Caucasus Northwest	132	2.3%	Rootsi et al. 2012, Yunusbaev et al. 2001
	Kartvelian						
		Kartvelian	Georgians	Caucasus South	66	6.1%	Rootsi et al. 2012, Yunusbaev et al. 2001
	North Caucasian						
		North Caucasian	Adyghe	Caucasus Northwest	156	39.7%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Cherkessians	Caucasus Northwest	126	36.5%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Hinuq	Daghestan	15	33.3%	Karafet et al. 2016
		North Caucasian	Kabardians	Caucasus Northwest	141	29.1%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Abazins	Caucasus Northwest	90	23.3%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Abkhaz	Caucasus South	162	22.8%	Rootsi et al. 2012, Yunusbaev et al. 2001
		North Caucasian	Laks	Daghestan	22	9.1%	Karafet et al. 2016
		North Caucasian	Andis	Daghestan	12	8.3%	Karafet et al. 2016
	Turkic						

Region	Language Group	Language Family	Population	Location	Sample Size	G2a-U1	Reference
		Turkic	Kumyks	Caucasus Northeast	76	7.9%	Rootsi et al. 2012, Yunusbaev et al. 2001
		Turkic	Karachays	Caucasus Northwest	69	7.2%	Rootsi et al. 2012, Yunusbaev et al. 2001
		Turkic	Nogais	Caucasus Northwest	87	6.9%	Rootsi et al. 2012, Yunusbaev et al. 2001
		Turkic	Balkars	Caucasus Northwest	136	6.6%	Rootsi et al. 2012, Yunusbaev et al. 2001
		Turkic	Nogais	Daghestan	22	4.5%	Karafet et al. 2016
Central Asia	Turkic						
		Turkic	Kazakhs	Central Asia	180	1.1%	Rootsi et al. 2012, Yunusbaev et al. 2001
		Turkic	Kyrgyz	Central Asia	153	0.7%	Rootsi et al. 2012
Eastern Europe	Slavic						
		Indo-European	Slovenes	Slovenia	102	1.0%	Rootsi et al. 2012
		Indo-European	Ukrainians	Ukraine	597	0.5%	Rootsi et al. 2012
		Indo-European	Bulgarians	Bulgaria	809	0.5%	Rootsi et al. 2012
		Indo-European	Belarusians	Belorussia	582	0.3%	Rootsi et al. 2012
	Turkic						
		Turkic	Bashkirs	Russia	89	1.1%	Rootsi et al. 2012
Mediterranean	Greek						
		Indo-European	Greeks	Greeks (Smyrna)	58	3.4%	Rootsi et al. 2012, King et al. 2011
		Indo-European	Cretans	Crete	361	0.3%	Rootsi et al. 2012, King et al. 2008, Martinez et al. 2007

Region	Language Group	Language Family	Population	Location	Sample Size	G2a-U1	Reference
		Indo-European	Greek Cypriots	Cyprus	629	0.2%	Voskarides et al. 2017
	Italic						
		Indo-European	Italians	Italy	288	1.0%	Rootsi et al. 2012
		Indo-European	Sardinians	Sardinia set2	519	0.2%	Rootsi et al. 2012
Middle East							
	Afro-Asiatic						
		Afro-Asiatic	Palestinians	Palestina	90	16.7%	Rootsi et al. 2012, Behar et al. 2010
	Armenian						
		Indo-European	Armenians	Iran	34	2.9%	Grugni et al. 2012
	Indo-Iranian						
		Indo-European	Mazandarani	Iran	72	1.4%	Grugni et al. 2012
		Indo-European	Iranians, set1	Iran	233	0.4%	Rootsi et al. 2012, Reguero et al. 2006
		Indo-European	Iranians, set2	Iran	1116	0.4%	Rootsi et al. 2012
	Turkic						
		Turkic	Turks	Turkey Central	246	2.4%	Rootsi et al. 2012, Cinnioglu et al. 2004, Myres et al. 2010
		Turkic	Turks	Turkey East	208	1.0%	Rootsi et al. 2012, Cinnioglu et al. 2004
		Turkic	Azerbaijani	Iran	297	0.7%	Rootsi et al. 2012
		Turkic	Turks	Turkey West	163	0.6%	Rootsi et al. 2012, Cinnioglu et al. 2004

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Supplementary Tables for Chapter Nine and Haplogroup H-M2713



Supplementary Table 9.1. Contemporary Distribution of the H1a-M69 Mutation.

Region	Language Group	Language Family	Population	Location	Sample Size	H1a-M69	Reference
Central Asia							
	Iranian						
		Indo-European	Hazara-Bamiyan	Afghanistan	69	13.0%	Di Cristofaro et al. 2013
		Indo-European	Tajik-Badakhshan	Afghanistan	37	10.8%	Di Cristofaro et al. 2013
		Indo-European	Pashtun-Baghlan	Afghanistan	34	8.8%	Di Cristofaro et al. 2013
		Indo-European	Tajik-Takhar	Afghanistan	35	8.6%	Di Cristofaro et al. 2013
		Indo-European	Pashtun-Kunduz	Afghanistan	53	7.5%	Di Cristofaro et al. 2013
		Indo-European	Tajik-Samangan	Afghanistan	16	6.3%	Di Cristofaro et al. 2013
		Indo-European	Pashtun	Afghanistan	49	6.1%	Haber et al. 2012
		Indo-European	Pashtun	Afghanistan	56	5.4%	Haber et al. 2012
		Indo-European	Hazara	Afghanistan	60	3.3%	Haber et al. 2012
		Indo-European	Tajiks	Tajikistan	40	2.5%	Malyarchuck et al. 2013
	Turkic						
		Turkic	Uzbeks	Uzbekistan-Tashkent	52	5.8%	Zhabagin et al. 2017
		Turkic	Kazakhs	Kazakhstan-Shymkent	55	5.5%	Zhabagin et al. 2017
		Turkic	Uzbek-Jawzjan	Afghanistan	94	4.3%	Di Cristofaro et al. 2013
		Turkic	Turkmen	Uzbekistan-Karakalpakstan	83	3.6%	Zhabagin et al. 2017
		Turkic	Kyrgyz-NorthWest	Kyrgyzstan	37	2.7%	Di Cristofaro et al. 2013
East Asia							
	Chinese						
		Sino-Tibetan	Hui	Guangxi	62	4.8%	Zhong et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	H1a-M69	Reference
Mon-Khmer							
		Austro-Asiatic	Mon	Central Thailand	14	7.1%	Kutanan et al. 2019
		Austro-Asiatic	Mon	West Thailand	18	5.6%	Kutanan et al. 2019
		Austro-Asiatic	Jing	Ningxia	45	2.2%	Zhong et al. 2011
Tai-Kadai							
		Tai-Kadai	Yuan	Northern Thailand	19	5.3%	Brunelli et al. 2017
		Tai-Kadai	Central Thai	Central Thailand	19	5.3%	Kutanan et al. 2019
		Tai-Kadai	Khon Muang	Northern Thailand	29	3.4%	Brunelli et al. 2017
Turkic							
		Turkic	Uygur	Xingjiang	48	8.3%	Zhong et al. 2011
		Turkic	Uygur	Xingjiang	71	4.2%	Zhong et al. 2011
		Turkic	Hazak	Xingjiang	53	1.9%	Zhong et al. 2011
Eastern Europe							
Indo-Aryan							
		Indo-European	Roma	Tizavasvari, Hungary	29	58.6%	Pamjav et al. 2011
		Indo-European	Roma	Slovakia	200	40.0%	Petrejčíková et al. 2009
		Indo-European	Roma	Hungary	107	31.8%	Pamjav et al. 2011
		Indo-European	Roma	Slovakia	62	30.6%	Pamjav et al. 2011
		Indo-European	Roma	Tokaj, Hungary	39	20.5%	Pamjav et al. 2011
		Indo-European	Roma	Taktakoz, Hungary	19	10.5%	Pamjav et al. 2011
		Indo-European	Roma	Macedonia	57	5.3%	Peričić et al. 2005
Middle East							
Iranian							
		Indo-European	Persians	Iran-Fars+Isfahan	55	5.5%	Grugni et al. 2012
		Indo-European	Persians	Iran-Khorasan	59	5.1%	Grugni et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	H1a-M69	Reference
		Indo-European	Gilaki	Iran-Gilan	64	4.7%	Grugni et al. 2012
		Indo-European	Mazandarani	Iran-Mazandaran	72	4.2%	Grugni et al. 2012
		Turkic					
South Asia	Dravidian	Turkic	Turkmen	Iran-Golestan	68	4.4%	Grugni et al. 2012
		Dravidian	Chakkliar	Tamil Nadu	9	88.9%	Sahoo et al. 2006
		Dravidian	Koraga	Karnataka	33	87.9%	Cordaux et al. 2004a
		Dravidian	Irular	Tamil Nadu	10	80.0%	Sahoo et al. 2006
		Dravidian	Muria	Central India	20	80.0%	Sengupta et al. 2006
		Dravidian	Kurumba	South India	19	73.7%	Sengupta et al. 2006
		Dravidian	Oraon	West Bengal	31	71.0%	Debnath et al. 2011
		Dravidian	Koya	Andhra Pradesh	41	70.7%	Kivisild et al. 2003
		Dravidian	Bhovi	Karnataka	13	69.2%	Sahoo et al. 2006
		Dravidian	Naikpod Gond	Andra Pradesh	18	66.7%	Sahoo et al. 2006
		Dravidian	Pallar	Tamil Nadu	15	60.0%	Sahoo et al. 2006
		Dravidian	Madia Gond	Maharastra	14	57.1%	Sahoo et al. 2006
		Dravidian	Gounder	Tamil Nadu	14	57.1%	Sahoo et al. 2006
		Dravidian	Kota	South India	16	56.3%	Sengupta et al. 2006
		Dravidian	Vanniyar	Tamil Nadu	10	50.0%	Sahoo et al. 2006
		Dravidian	Ambalakarar	South India	29	48.3%	Sengupta et al. 2006
		Dravidian	Iyengar	Karnataka	17	47.1%	Sahoo et al. 2006
Dravidian	Kallar	Tamil Nadu	9	44.4%	Sahoo et al. 2006		
Dravidian	Kamar	Central India	30	43.3%	Sengupta et al. 2006		
Dravidian	Paroja	Orissa	15	40.0%	Sahoo and Kashyap 2006		

Region	Language Group	Language Family	Population	Location	Sample Size	H1a-M69	Reference
		Dravidian	Lingayat	Karnataka	10	40.0%	Sahoo et al. 2006
		Dravidian	Bettakurumba	Tamil Nadu	5	40.0%	Cordaux et al. 2004a
		Dravidian	Irula	South India	30	40.0%	Sengupta et al. 2006
		Dravidian	Paroja	Orissa	13	38.5%	Sahoo et al. 2006
		Dravidian	Chenchu	Andhra Pradesh	41	36.6%	Kivisild et al. 2003
		Dravidian	Oroan	Jharkhand	9	33.3%	Sahoo et al. 2006
		Dravidian	Naikpod	Andra Pradesh	68	32.4%	Thanseem et al. 2006
		Dravidian	Vellalar	South India	31	29.0%	Sengupta et al. 2006
		Dravidian	Paharia	harkhand; West Bengal	11	27.3%	Kumar et al. 2007
		Dravidian	Mullukurunan	Southern India	15	26.7%	Cordaux et al. 2004a
		Dravidian	Pardhan	Andra Pradesh	128	25.8%	Thanseem et al. 2006
		Dravidian	Gowda	Karnataka	4	25.0%	Sahoo et al. 2006
		Dravidian	Lingayat	Karnataka India	101	24.8%	Chennakrishnaiah et al. 2013
		Dravidian	Vanniyar	South India	25	24.0%	Sengupta et al. 2006
		Dravidian	Vokkaliga	Karnataka India	102	23.5%	Chennakrishnaiah et al. 2013
		Dravidian	Mullukurumba	Tamil Nadu	9	22.2%	Cordaux et al. 2004a
		Dravidian	Nagesia	Chattisgarh	14	21.4%	Kumar et al. 2007
		Dravidian	Kuruva	Karnataka	10	20.0%	Sahoo et al. 2006
		Dravidian	Brahmin	Andra Pradesh	15	20.0%	Sahoo et al. 2006
		Dravidian	Vizag Brahmins	Andra Pradesh	41	19.5%	Cordaux et al. 2004a; Ramana et al. 2001
		Dravidian	Yerava	Southern India	41	19.5%	Cordaux et al. 2004a
		Dravidian	Yadhava	Tamil Nadu	129	18.6%	Cordaux et al. 2004a; Wells et al. 2001
		Dravidian	Mukkuvar	Tamil Nadu	17	17.6%	Arunkumar et al. 2012
		Dravidian	Kanikaran	Tamil Nadu	17	17.6%	Arunkumar et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	H1a-M69	Reference
		Dravidian	Betta Kurumba	Tamil Nadu	17	17.6%	Arunkumar et al. 2012
		Dravidian	Pallan	South India	29	17.2%	Sengupta et al. 2006
		Dravidian	Kallar	Tamil Nadu	84	15.5%	Cordaux et al. 2004a; Wells et al. 2001
		Dravidian	Panyia	Kerala	7	14.3%	Cordaux et al. 2004a
		Dravidian	Vanniyar	Tamil Nadu	21	14.3%	Arunkumar et al. 2012
		Dravidian	Kurichiya	Kerala	14	14.3%	Cordaux et al. 2004a
		Dravidian	Valmiki	Andra Pradesh	24	12.5%	Cordaux et al. 2004a; Ramana et al. 2001
		Dravidian	Parayar	Tamil Nadu	24	12.5%	Arunkumar et al. 2012
		Dravidian	Thoda	Tamil Nadu	26	11.5%	Arunkumar et al. 2012
		Dravidian	Paravar	Tamil Nadu	27	11.1%	Arunkumar et al. 2012
		Dravidian	Kadar	Tamil Nadu	28	10.7%	Arunkumar et al. 2012
		Dravidian	Mullukurumba	Tamil Nadu	29	10.3%	Arunkumar et al. 2012
		Dravidian	Poroja	Andra Pradesh	20	10.0%	Cordaux et al. 2004a; Ramana et al. 2001
		Dravidian	Komati	Andra Pradesh	20	10.0%	Sahoo et al. 2006
		Dravidian	Iyengar	South India	30	10.0%	Sengupta et al. 2006
		Dravidian	Gonds	Madhya Pradesh	31	9.7%	Sharma et al. 2009
		Dravidian	Bagata	Andra Pradesh	23	8.7%	Cordaux et al. 2004a; Ramana et al. 2001
		Dravidian	Kurumba	Tamil Nadu	35	8.6%	Arunkumar et al. 2012
		Dravidian	Gonds	Uttar Pradesh	38	7.9%	Sharma et al. 2009
		Dravidian	Iyer	South India	29	6.9%	Sengupta et al. 2006
		Dravidian	Kamma Chaudhary	Andra Pradesh	15	6.7%	Sahoo et al. 2006
		Dravidian	Kattunaickan	Tamil Nadu	46	6.5%	Arunkumar et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	H1a-M69	Reference
		Dravidian	Pallar	Tamil Nadu	51	5.9%	Arunkumar et al. 2012
		Dravidian	Parayar NTN	Tamil Nadu	52	5.8%	Arunkumar et al. 2012
		Dravidian	Piramalai Kallar	Tamil Nadu	53	5.7%	Arunkumar et al. 2012
		Dravidian	Nadar TNV	Tamil Nadu	59	5.1%	Arunkumar et al. 2012
		Dravidian	Kota	Tamil Nadu	62	4.8%	Arunkumar et al. 2012
		Dravidian	Pulayar	Tamil Nadu	63	4.8%	Arunkumar et al. 2012
		Dravidian	Brahui	South Pakistan	25	4.0%	Sengupta et al. 2006
		Dravidian	Brahui	Pakistan	25	4.0%	Di Cristofaro et al. 2013
		Dravidian	Irula	Tamil Nadu	80	3.8%	Arunkumar et al. 2012
		Dravidian	Maravar	Tamil Nadu	80	3.8%	Arunkumar et al. 2012
		Dravidian	Koya Dora	South India	27	3.7%	Sengupta et al. 2006
		Dravidian	Konda Reddy	South India	30	3.3%	Sengupta et al. 2006
		Dravidian	Oraon	Jharkhand; Chattisgarh	91	3.3%	Kumar et al. 2007
		Dravidian	Paliyan	Tamil Nadu	95	3.2%	Arunkumar et al. 2012
		Dravidian	Ezhava	Tamil Nadu	95	3.2%	Arunkumar et al. 2012
		Dravidian	Valayar	Tamil Nadu	95	3.2%	Arunkumar et al. 2012
		Dravidian	Vanniyar NTN	Tamil Nadu	96	3.1%	Arunkumar et al. 2012
		Dravidian	Nadar Cape	Tamil Nadu	98	3.1%	Arunkumar et al. 2012
		Dravidian	Tamil Jains	Tamil Nadu	100	3.0%	Arunkumar et al. 2012
		Dravidian	Yadhava	Tamil Nadu	107	2.8%	Arunkumar et al. 2012
		Dravidian	Oraon	Jharkhand	110	2.7%	Borkar et al. 2011
		Dravidian	Kammas	Andra Pradesh	40	2.5%	Cordaux et al. 2004a; Ramana et al. 2001
Indo-Aryan							
		Indo-European	Kurmi	Uttar Pradesh	6	100.0%	Sahoo et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	H1a-M69	Reference
		Indo-European	Bagdi	East India	11	72.7%	Sengupta et al. 2006
		Indo-European	Maheli	West Bengal	13	69.2%	Sahoo et al. 2006
		Indo-European	Pawara	Maharashtra	16	68.8%	Sahoo et al. 2006
		Indo-European	Mota Chaudhari	Gujarat	27	66.7%	Khurana et al. 2014
		Indo-European	Katkari	Maharashtra	19	63.2%	Sahoo et al. 2006
		Indo-European	Vasava	Gujarat	24	62.5%	Khurana et al. 2014
		Indo-European	Gamit	Gujarat	18	61.1%	Khurana et al. 2014
		Indo-European	Nana Chaudhari	Gujarat	25	60.0%	Khurana et al. 2014
		Indo-European	Gaud	East India	5	60.0%	Sengupta et al. 2006
		Indo-European	Mahadeo Koli	Maharashtra	11	54.5%	Sahoo et al. 2006
		Indo-European	Mahishya	East India	13	53.8%	Sengupta et al. 2006
		Indo-European	Chamar	Northern India	18	50.0%	Sengupta et al. 2006
		Indo-European	Kayastha	Bihar	14	50.0%	Sahoo et al. 2006
		Indo-European	Dubla	Gujarat	42	47.6%	Khurana et al. 2014
		Indo-European	Patel	Gujarat	9	44.4%	Sahoo et al. 2006
		Indo-European	Nav Buddha	West India	14	42.9%	Sengupta et al. 2006
		Indo-European	Kurmi	Bihar	13	38.5%	Sahoo et al. 2006
		Indo-European	Maratha	Maharashtra	16	37.5%	Sahoo et al. 2006
		Indo-European	Baniya	Bihar	11	36.4%	Sahoo et al. 2006
		Indo-European	Chitpavan Brahmin	Maharashtra	15	33.3%	Sahoo et al. 2006
		Indo-European	Halba	Central India	21	33.3%	Sengupta et al. 2006
		Indo-European	Rajput	Himachal Pradesh	15	33.3%	Sahoo et al. 2006
		Indo-European	Dhodia	Gujarat	63	33.3%	Khurana et al. 2014
		Indo-European	Dhangar	Maharashtra	16	31.3%	Sahoo et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	H1a-M69	Reference
		Indo-European	Namasudra	West Bengal	13	30.8%	Sahoo et al. 2006
		Indo-European	Konkana	Gujarat	24	29.2%	Khurana et al. 2014
		Indo-European	Iyengar	Tamil Nadu	11	27.3%	Arunkumar et al. 2012
		Indo-European	Gope	Orissa	16	25.0%	Sahoo and Kashyap 2006
		Indo-European	Yadav (Gope)	Orissa	16	25.0%	Sahoo et al. 2006
		Indo-European	Maratha	West India	20	25.0%	Sengupta et al. 2006
		Indo-European	Khandayat	Orissa	13	23.1%	Sahoo and Kashyap 2006
		Indo-European	Khandayat	Orissa	13	23.1%	Sahoo et al. 2006
		Indo-European	Kanyakubj Brahmins	Uttar Pradesh	10	20.0%	Sahoo et al. 2006
		Indo-European	Kalash	Pakistan	20	20.0%	Di Cristofaro et al. 2013
		Indo-European	Bhoksha	Uttar Pradesh	10	20.0%	Sahoo et al. 2006
		Indo-European	Desasth Brahmin	Maharashtra	16	18.8%	Sahoo et al. 2006
		Indo-European	Rajput	Northern India	29	17.2%	Sengupta et al. 2006
		Indo-European	Bhargavas	Uttar Pradesh	96	16.7%	Zhao et al. 2009
		Indo-European	Bhargavas	Uttar Pradesh	96	16.7%	Zhao et al. 2009
		Indo-European	Karan	Orissa	18	16.7%	Sahoo and Kashyap 2006
		Indo-European	Karan	Orissa	18	16.7%	Sahoo et al. 2006
		Indo-European	Andh	Andhra Pradesh	54	16.7%	Thanseem et al. 2006
		Indo-European	Bengali	West Bengal	54	16.7%	Debnath et al. 2011
		Indo-European	Valvi Chaudhari	Gujarat	32	15.6%	Khurana et al. 2014
		Indo-European	Sourashtran	Tamil Nadu	46	15.2%	Cordaux et al. 2004a; Wells et al. 2001
		Indo-European	Bhumihar	Bihar	20	15.0%	Sahoo et al. 2006
		Indo-European	Brahacharanam	Tamil Nadu	21	14.3%	Arunkumar et al. 2012
		Indo-European	Gujarati	Gujarat	29	13.8%	Kivisild et al. 2003

Region	Language Group	Language Family	Population	Location	Sample Size	H1a-M69	Reference
		Indo-European	Bhils	Gujarat	22	13.6%	Sharma et al. 2009
		Indo-European	Pando	Chattisgarh	23	13.0%	Kumar et al. 2007
		Indo-European	Yadav	Bihar	8	12.5%	Sahoo et al. 2006
		Indo-European	Koknasth Brahmin	West India	25	12.0%	Sengupta et al. 2006
		Indo-European	Brahmins	Uttar Pradesh	118	11.9%	Zhao et al. 2009
		Indo-European	Brahmins	Uttar Pradesh	118	11.9%	Zhao et al. 2009
		Indo-European	Mahishiya	West Bengal	17	11.8%	Sahoo et al. 2006
		Indo-European	Rajbanshi	West Bengal	51	11.8%	Debnath et al. 2011
		Indo-European	Paswan	Bihar	27	11.1%	Sharma et al. 2009
		Indo-European	Sinhalese	Sri Lanka	39	10.3%	Kivisild et al. 2003
		Indo-European	Brahmin	West Bengal	30	10.0%	Sharma et al. 2009
		Indo-European	Brahmin	Himachal	30	10.0%	Sharma et al. 2009
		Indo-European	Brahmin	Uttar Pradesh	31	9.7%	Sharma et al. 2009
		Indo-European	Brahmin	Maharashtra	32	9.4%	Sharma et al. 2009
		Indo-European	Konkani Brahmins	Bombay	43	9.3%	Kivisild et al. 2003
		Indo-European	Brahmin	Orissa	23	8.7%	Sahoo and Kashyap 2006
		Indo-European	Oriya Brahmin	Orissa	24	8.3%	Sahoo et al. 2006
		Indo-European	Rajput	Bihar	12	8.3%	Sahoo et al. 2006
		Indo-European	Bathudi	Oriss	36	8.3%	Kumar et al. 2007
		Indo-European	Tharu	Morang, Nepal	37	8.1%	Fornarino et al. 2009
		Indo-European	Sourashtra	Tamil Nadu	40	7.5%	Arunkumar et al. 2012
		Indo-European	Kanwar	Chattisgarh	41	7.3%	Kumar et al. 2007
		Indo-European	Uttar Pradesh Brahmin	Northern India	14	7.1%	Sengupta et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	H1a-M69	Reference
		Indo-European	Brahmin	Madhya Pradesh	42	7.1%	Sharma et al. 2009
		Indo-European	Pavagadhi Chaudhari	Gujarat	29	6.9%	Khurana et al. 2014
		Indo-European	Chaturvedis	Uttar Pradesh	88	6.8%	Zhao et al. 2009
		Indo-European	Kalash	Pakistan	44	6.8%	Firasat et al. 2007
		Indo-European	Chaturvedis	Uttar Pradesh	88	6.8%	Zhao et al. 2009
		Indo-European	Rajbanshi	West Bengal	45	6.7%	Borkar et al. 2011
		Indo-European	Thakur	Maharashtra	48	6.3%	Thangaraj et al. 2010
		Indo-European	Gujars	Kashmir	49	6.1%	Sharma et al. 2009
		Indo-European	Mahadeo Koli	Maharashtra	50	6.0%	Thangaraj et al. 2010
		Indo-European	Pandits	Kashmir	51	5.9%	Sharma et al. 2009
		Indo-European	West Bengal Brahmin	East India	18	5.6%	Sengupta et al. 2006
		Indo-European	Saharia	Madhya Pradesh	57	5.3%	Sharma et al. 2009
		Indo-European	Tharu	Chitwan, Nepal	57	5.3%	Fornarino et al. 2009
		Indo-European	Vadama	Tamil Nadu	63	4.8%	Arunkumar et al. 2012
		Indo-European	Brahmin	Gujarat	64	4.7%	Sharma et al. 2009
		Indo-European	Punjabi	Punjab	66	4.5%	Kivisild et al. 2003
		Indo-European	Tharu	Chitwan, Nepal	77	3.9%	Fornarino et al. 2009
		Indo-European	Bhuiyan	Orissa	81	3.7%	Kumar et al. 2007
		Indo-European	Pahariya	Jharkhand	100	3.0%	Borkar et al. 2011
	Iranian	Indo-European	Pathans	North Pakistan	20	20.0%	Sengupta et al. 2006
		Indo-European	Pathans	Pakistan	20	10.0%	Di Cristofaro et al. 2013
		Indo-European	Banjara (Lambadi)	Andhra Pradesh	35	8.6%	Kivisild et al. 2003

Region	Language Group	Language Family	Population	Location	Sample Size	H1a-M69	Reference
		Indo-European	Lambadi	Andra Pradesh	18	5.6%	Sahoo et al. 2006
		Indo-European	Balochi	South Pakistan	25	4.0%	Sengupta et al. 2006
		Indo-European	Balochi	Pakistan	25	4.0%	Di Cristofaro et al. 2013
		Indo-European	Pathan	Pakistan	96	3.1%	Firasat et al. 2007
Isolate Burusho							
		Isolate	Burusho	Pakistan	20	15.0%	Di Cristofaro et al. 2013
		Isolate	Burusho	North Pakistan	20	15.0%	Sengupta et al. 2006
		Isolate	Burusho	Pakistan	97	3.1%	Firasat et al. 2007
Mon-Khmer							
		Austro-Asiatic	Khasi	Khasi Hills; Jaintia Hills; Meghalaya	92	3.3%	Kumar et al. 2007
Munda							
		Austro-Asiatic	Kora	West Bengal	17	64.7%	Sahoo et al. 2006
		Austro-Asiatic	Santhal	West Bengal	51	43.1%	Debnath et al. 2011
		Austro-Asiatic	Kol	West Bengal	62	41.9%	Debnath et al. 2011
		Austro-Asiatic	Lodha	East India	20	30.0%	Sengupta et al. 2006
		Austro-Asiatic	Santhal	East India	14	28.6%	Sengupta et al. 2006
		Austro-Asiatic	Lodha	West Bengal	4	25.0%	Sahoo et al. 2006
		Austro-Asiatic	Saora	Orissa	21	19.0%	Sahoo and Kashyap 2006
		Austro-Asiatic	Kharia	West Bengal	34	17.6%	Debnath et al. 2011
		Austro-Asiatic	Ho	East India	30	16.7%	Sengupta et al. 2006
		Austro-Asiatic	Saora	Orissa	13	15.4%	Sahoo et al. 2006
		Austro-Asiatic	Mahali	Jharkhand; West Bengal	25	12.0%	Kumar et al. 2007
		Austro-Asiatic	Ho	Jharkhand	28	10.7%	Borkar et al. 2011
		Austro-Asiatic	Kols	Uttar Pradesh	30	10.0%	Sharma et al. 2009

Region	Language Group	Language Family	Population	Location	Sample Size	H1a-M69	Reference
		Austro-Asiatic	Kharia	Jharkhand	10	10.0%	Sahoo et al. 2006
		Austro-Asiatic	Agharia	East India	10	10.0%	Sengupta et al. 2006
		Austro-Asiatic	Kharia	harkhand; West Bengal; Orissa	36	8.3%	Kumar et al. 2007
		Austro-Asiatic	Mudi	Jharkhand; West Bengal	37	8.1%	Kumar et al. 2007
		Austro-Asiatic	Birhor	Jharkhand; West Bengal; Orissa	38	7.9%	Kumar et al. 2007
		Austro-Asiatic	Korwa	Jharkhand; Chattisgarh	42	7.1%	Kumar et al. 2007
		Austro-Asiatic	Lodha	West Bengal	47	6.4%	Kumar et al. 2007
		Austro-Asiatic	Savar	harkhand; West Bengal; Orissa	47	6.4%	Kumar et al. 2007
		Austro-Asiatic	Munda	Jharkhand; West Bengal; Orissa	53	5.7%	Kumar et al. 2007
		Austro-Asiatic	Asur	Jharkhand	55	5.5%	Kumar et al. 2007
		Austro-Asiatic	Korku	Maharashtra	59	5.1%	Kumar et al. 2007
		Austro-Asiatic	Ho	Orissa	79	3.8%	Kumar et al. 2007
		Austro-Asiatic	Bhumij	Jharkhand; West Bengal	89	3.4%	Kumar et al. 2007
		Austro-Asiatic	Santhal	Jharkhand	90	3.3%	Borkar et al. 2011
		Austro-Asiatic	Munda	Jharkhand	94	3.2%	Borkar et al. 2011
		Austro-Asiatic	Birhor	Jharkhand	100	3.0%	Borkar et al. 2011
		Austro-Asiatic	Santhal	Jharkhand; West Bengal	109	2.8%	Kumar et al. 2007
	Tibeto-Burman						
		Sino-Tibetan	Rabha	West Bengal	26	15.4%	Debnath et al. 2011
		Sino-Tibetan	Lachung	Sikkim	20	15.0%	Borkar et al. 2011
		Sino-Tibetan	Lachungpa	Sikkim	11	9.1%	Debnath et al. 2011
		Sino-Tibetan	Apatani	Northeast India	33	9.1%	Cordaux et al. 2004b

Region	Language Group	Language Family	Population	Location	Sample Size	H1a-M69	Reference
		Sino-Tibetan	Garo	Meghalaya	33	9.1%	Kumar et al. 2007
		Sino-Tibetan	Dhimal	West Bengal	36	8.3%	Debnath et al. 2011
		Sino-Tibetan	Mizo	Northeast India	27	3.7%	Sengupta et al. 2006
		Sino-Tibetan	Jamatia	Northeast India	30	3.3%	Sengupta et al. 2006
		Sino-Tibetan	Nishi	Northeast India	51	2.0%	Cordaux et al. 2004b
		Sino-Tibetan	Adi	Northeast India	55	1.8%	Cordaux et al. 2004b
Western Europe							
	Indo-Aryan						
		Indo-European	Roma	Portugal	126	16.7%	Gusmao et al. 2008

Supplementary Table 9.2. Distribution of Ancient H-M2713 Mutations.

Region	Master ID	Culture 2	Country	Location	Death	Mutation	Reference
Central Asia							
	I10409	Bronze Age	Turkmenistan	Gonur	4112	H1a-M52	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
Eastern Europe							
	I1878	Neolithic	Hungary	Alsónyék-Bátaszék, Mérnöki telep	7700	H2-P96	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	I0174	Neolithic	Hungary	Alsónyék-Bátaszék, Mérnöki telep	7569	H2-P96	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	I1887	Neolithic	Hungary	Versend-Gilencsa	7150	H2-P96	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	I1903	Neolithic	Hungary	Bátaszék, Lajvér	6600	H2-P96	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	I6677	Neolithic	Czech Republic	Bilina	5550	H2-P96	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I2520	Bronze Age	Bulgaria	Veliko Tarnovo, Dzhulyunitsa	5132	H2-P96	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	I2364	Bronze Age	Hungary	Budapest-Békásmegyér	4215	H2-P96	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Mediterranean							
	R1014	Copper Age	Italy	Monte San Biagio	7084	H2-P96	Antonio et al. 2019; Reich Dataset V42.4 (2020)
	I15941	Copper Age	Italy	Sardinia, Anghelu Ruju	4193	H2-P96	Fernandes et al. 2020
	I16168	Bronze Age	Italy	Sardinia, Anghelu Ruju	3350	H2-P96	Fernandes et al. 2020
Middle East							
	I0867	Neolithic	Israel	Motza	8700	H2-P96	Lazaridis et al. 2016; Reich Dataset V42.4 (2020)

Region	Master ID	Culture 2	Country	Location	Death	Mutation	Reference
	I1101	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	8300	H2-P96	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	I0745	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	8251	H2-P96	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	I0709	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	8086	H2-P96	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	KRD001	Neolithic	Turkey	Tell Kurdu	6783	H2-P96	Skourtanioti et al. 2020
	ART042	Neolithic	Turkey	Arslantepe	5014	H2-P96	Skourtanioti et al. 2020
	I11459	Bronze Age	Iran	Seistan, Shahr-i Sokhta	4703	H1a-M52	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	ART032	Neolithic	Turkey	Arslantepe	4568	H2-P96	Skourtanioti et al. 2020
	ALA008	Bronze Age	Turkey	Alalakh	3473	H2-P96	Skourtanioti et al. 2020
South Asia							
	I8194	Iron Age	Pakistan	Swat Valley, Gogdara	2950	H1a M82	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I6548	Iron Age	Pakistan	Swat Valley, Barikot	2850	H1a-M52	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I12447	Iron Age	Pakistan	Swat Valley, Katelai	2850	H1a-M52	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I12143	Iron Age	Pakistan	Swat Valley, Katelai	2850	H1a-M52	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
Western Europe							
	XN167	Neolithic	Germany	Stuttgart-Mühlhausen I	7079	H2-P96	Rivollat et al. 2020
	XN164	Neolithic	Germany	Stuttgart-Mühlhausen I	7068	H2-P96	Rivollat et al. 2020
	XN171	Neolithic	Germany	Stuttgart-Mühlhausen I	7066	H2-P96	Rivollat et al. 2020

Region	Master ID	Culture 2	Country	Location	Death	Mutation	Reference
	XN165	Neolithic	Germany	Stuttgart-Mühlhausen I	7063	H2-P96	Rivollat et al. 2020
	XN168	Neolithic	Germany	Stuttgart-Mühlhausen I	7060	H2-P96	Rivollat et al. 2020
	XN180	Neolithic	Germany	Stuttgart-Mühlhausen I	7022	H2-P96	Rivollat et al. 2020
	XN173	Neolithic	Germany	Stuttgart-Mühlhausen II	7013	H2-P96	Rivollat et al. 2020
	XN170	Neolithic	Germany	Stuttgart-Mühlhausen I	6985	H2-P96	Rivollat et al. 2020
	MDV248	Neolithic	France	Menneville	6938	H2-P96	Brunel et al. 2020
	XN174	Neolithic	Germany	Stuttgart-Mühlhausen I	6711	H2-P96	Rivollat et al. 2020
	LARZ4	Neolithic	France	Larzacourt	6700	H2-P96	Brunel et al. 2020
	FLR004	Neolithic	France	Fleury-sur-Orne	6490	H2-P96	Rivollat et al. 2020
	FLR014	Neolithic	France	Fleury-sur-Orne	6405	H2-P96	Rivollat et al. 2020
	LD270	Neolithic	Portugal	Lorga de Din	6336	H2-P96	Gonzales Fortes et al. 2019; Reich Dataset V42.4 (2020)
	FLR001	Neolithic	France	Fleury-sur-Orne	6275	H2-P96	Rivollat et al. 2020
	BUCH2	Neolithic	France	Buchères	6200	H2-P96	Brunel et al. 2020
	FLR002	Neolithic	France	Fleury-sur-Orne	5965	H2-P96	Rivollat et al. 2020
	I7643	Neolithic	Spain	Alicante, Alcoi, Llometes	5785	H2-P96	Olalde et al. 2019; Reich Dataset V42.4 (2020)
	I0405	Neolithic	Spain	La Mina	5700	H2-P96	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	atp002	Copper Age	Spain	Atapuerca, El Portalón	4740	H2-P96	Valdiosera et al. 2018; Reich Dataset V42.4 (2020)

Supplementary Table 9.3 Indo-European Populations of South Asia and H1a-M69.

Population	Location	Branch	Sample Size	No. H-M69	Freq. H-M69	Reference
Mota Chaudhari	Gujarat	Indo-Aryan	27	18	0.67	Khurana et al. 2014
Vasava	Gujarat	Indo-Aryan	24	15	0.63	Khurana et al. 2014
Nana Chaudhari	Gujarat	Indo-Aryan	25	15	0.60	Khurana et al. 2014
Dubla	Gujarat	Indo-Aryan	42	20	0.48	Khurana et al. 2014
Tharu	Chitwan, Nepal	Indo-Aryan	77	30	0.39	Fornarino et al. 2009
Bathudi	Orissa	Indo-Aryan	36	14	0.39	Kumar et al. 2007
Pahariya	Jharkhand	Indo-Aryan	100	35	0.35	Borkar et al. 2011
Dhodia	Gujarat	Indo-Aryan	63	21	0.33	Khurana et al. 2014
Halba	Central India	Indo-Aryan	21	7	0.33	Sengupta et al. 2006
Saharia	Madhya Pradesh	Indo-Aryan	57	19	0.33	Sharma et al. 2009
Konkana	Gujarat	Indo-Aryan	24	7	0.29	Khurana et al. 2014
Kanwar	Chattisgarh	Indo-Aryan	41	12	0.29	Kumar et al. 2007
Bhils	Gujarat	Indo-Aryan	22	6	0.27	Sharma et al. 2009
Sourashtra	Tamil Nadu	Indo-Aryan	40	10	0.25	Arunkumar et al. 2012
Maratha	West India	Indo-Aryan	20	5	0.25	Sengupta et al. 2006
Pando	Chattisgarh	Indo-Aryan	23	5	0.22	Kumar et al. 2007
Brahacharanam	Tamil Nadu	Indo-Aryan	21	4	0.20	Arunkumar et al. 2012
Pathans	North Pakistan	Iranian	20	4	0.20	Sengupta et al. 2006
Kalash	Pakistan	Indo-Aryan	20	4	0.20	Di Cristofaro et al. 2013
Mahadeo Koli	Maharashtra	Indo-Aryan	50	9	0.18	Thangaraj et al. 2010
Rajput	Northern India	Indo-Aryan	29	5	0.17	Sengupta et al. 2006
Bengali	West Bengal	Indo-Aryan	54	9	0.17	Debnath et al. 2011
Bhargavas	Uttar Pradesh	Indo-Aryan	96	16	0.17	Zhao et al. 2009

Population	Location	Branch	Sample Size	No. H-M69	Freq. H-M69	Reference
Bhargavas	Uttar Pradesh	Indo-Aryan	96	16	0.17	Zhao et al. 2009
Andh	Andra Pradesh	Indo-Aryan	54	9	0.17	Thanseem et al. 2006
Rajbanshi	West Bengal	Indo-Aryan	45	7	0.16	Borkar et al. 2011
Tharu	Chitwan, Nepal	Indo-Aryan	57	9	0.16	Fornarino et al. 2009
Brahmin	Uttar Pradesh	Indo-Aryan	31	5	0.16	Sharma et al. 2009
Valvi Chaudhari	Gujarat	Indo-Aryan	32	5	0.16	Khurana et al. 2014
Sourashtran	Tamil Nadu	Indo-Aryan	46	7	0.15	Cordaux et al. 2004a; Wells et al. 2001
Bhumihar	Bihar	Indo-Aryan	20	3	0.15	Sahoo et al. 2006
Paswan	Bihar	Indo-Aryan	27	4	0.15	Sharma et al. 2009
Gujarati	Gujarat	Indo-Aryan	29	4	0.14	Kivisild et al. 2003
Tharu	Morang, Nepal	Indo-Aryan	37	5	0.13	Fornarino et al. 2009
Koknasth Brahmin	West India	Indo-Aryan	25	3	0.12	Sengupta et al. 2006
Brahmins	Uttar Pradesh	Indo-Aryan	118	14	0.12	Zhao et al. 2009
Brahmins	Uttar Pradesh	Indo-Aryan	118	14	0.12	Zhao et al. 2009
Rajbanshi	West Bengal	Indo-Aryan	51	6	0.12	Debnath et al. 2011
Bhuiyan	Orissa	Indo-Aryan	81	9	0.11	Kumar et al. 2007
Brahmin	Himachal	Indo-Aryan	30	3	0.11	Sharma et al. 2009
Vadama	Tamil Nadu	Indo-Aryan	63	7	0.11	Arunkumar et al. 2012
Sinhalese	Sri Lanka	Indo-Aryan	39	4	0.10	Kivisild et al. 2003
Brahmin	Maharashtra	Indo-Aryan	32	3	0.10	Sharma et al. 2009
Pathans	Pakistan	Iranian	20	2	0.10	Di Cristofaro et al. 2013
Pandits	Kashmir	Indo-Aryan	51	5	0.10	Sharma et al. 2009
Gujars	Kashmir	Indo-Aryan	49	5	0.10	Sharma et al. 2009
Konkani Brahmins	Bombay	Indo-Aryan	43	4	0.09	Kivisild et al. 2003
Brahmin	Orissa	Indo-Aryan	23	2	0.09	Sahoo and Kashyap 2006

Population	Location	Branch	Sample Size	No. H-M69	Freq. H-M69	Reference
Banjara (Lambadi)	Andhra Pradesh	Iranian	35	3	0.09	Kivisild et al. 2003
Oriya Brahmin	Orissa	Indo-Aryan	24	2	0.08	Sahoo et al. 2006
Thakur	Maharashtra	Indo-Aryan	48	4	0.08	Thangaraj et al. 2010
Brahmin	Madhya Pradesh	Indo-Aryan	42	3	0.07	Sharma et al. 2009
Pavagadhi Chaudhari	Gujarat	Indo-Aryan	29	2	0.07	Khurana et al. 2014
Chaturvedis	Uttar Pradesh	Indo-Aryan	88	6	0.07	Zhao et al. 2009
Chaturvedis	Uttar Pradesh	Indo-Aryan	88	6	0.07	Zhao et al. 2009
Brahmin	West Bengal	Indo-Aryan	30	2	0.06	Sharma et al. 2009
Punjabi	Punjab	Indo-Aryan	66	3	0.05	Kivisild et al. 2003
Balochi	South Pakistan	Iranian	25	1	0.04	Sengupta et al. 2006
Balochi	Pakistan	Iranian	25	1	0.04	Di Cristofaro et al. 2013
Pathan	Pakistan	Iranian	96	3	0.03	Firasat et al. 2007
Kalash	Pakistan	Indo-Aryan	44	1	0.03	Firasat et al. 2007
Brahmin	Gujarat	Indo-Aryan	64	1	0.02	Sharma et al. 2009

Total Sample

2853

Total H -M6

483

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Supplementary Table 9.4. Dravidian Populations of South Asia and H1a-M69.

Population	Location	Sample Size	No. H-M69	Freq. H-M69	Reference
Koraga	Karnataka	33	29	0.88	Cordaux et al. 2004a
Muria	Central India	20	16	0.80	Sengupta et al. 2006
Oraon	West Bengal	31	22	0.71	Debnath et al. 2011
Koya	Andhra Pradesh	41	29	0.71	Kivisild et al. 2003
Kurumba	Tamil Nadu	35	24	0.69	Arunkumar et al. 2012
Gonds	Madhya Pradesh	31	19	0.62	Sharma et al. 2009
Gonds	Uttar Pradesh	38	22	0.59	Sharma et al. 2009
Kattunaickan	Tamil Nadu	46	27	0.58	Arunkumar et al. 2012
Oraon	Jharkhand; Chattisgarh	91	52	0.57	Kumar et al. 2007
Ambalakarar	South India	29	14	0.48	Sengupta et al. 2006
Oraon	Jharkhand	110	50	0.45	Borkar et al. 2011
Kamar	Central India	30	13	0.43	Sengupta et al. 2006
Irula	South India	30	12	0.40	Sengupta et al. 2006
Parayar NTN	Tamil Nadu	52	20	0.39	Arunkumar et al. 2012
Chenchu	Andhra Pradesh	41	15	0.37	Kivisild et al. 2003
Irula	Tamil Nadu	80	29	0.36	Arunkumar et al. 2012
Mullukurumba	Tamil Nadu	29	10	0.34	Arunkumar et al. 2012
Kota	Tamil Nadu	62	20	0.33	Arunkumar et al. 2012
Naikpod	Andhra Pradesh	68	22	0.32	Thanseem et al. 2006
Kadar	Tamil Nadu	28	9	0.32	Arunkumar et al. 2012
Ezhava	Tamil Nadu	95	29	0.30	Arunkumar et al. 2012
Vellalar	South India	31	9	0.29	Sengupta et al. 2006

Population	Location	Sample Size	No. H-M69	Freq. H-M69	Reference
Nadar TNV	Tamil Nadu	59	17	0.29	Arunkumar et al. 2012
Tamil Jains	Tamil Nadu	100	28	0.28	Arunkumar et al. 2012
Pardhan	Andra Pradesh	128	33	0.26	Thanseem et al. 2006
Lingayat	Karnataka India	101	25	0.25	Chennakrishnaiah et al. 2013
Yadhava	Tamil Nadu	107	26	0.24	Arunkumar et al. 2012
Vanniyar	South India	25	6	0.24	Sengupta et al. 2006
Vokkaliga	Karnataka India	102	24	0.24	Chennakrishnaiah et al. 2013
Piramalai Kallar	Tamil Nadu	53	12	0.23	Arunkumar et al. 2012
Parayar	Tamil Nadu	24	5	0.21	Arunkumar et al. 2012
Vanniyar NTN	Tamil Nadu	96	19	0.20	Arunkumar et al. 2012
Valayar	Tamil Nadu	95	19	0.20	Arunkumar et al. 2012
Pallar	Tamil Nadu	51	10	0.20	Arunkumar et al. 2012
Yerava	Southern India	41	8	0.20	Cordaux et al. 2004a
Vizag Brahmins	Andra Pradesh	41	8	0.20	Cordaux et al. 2004a; Ramana et al. 2001
Yadhava	Tamil Nadu	129	24	0.19	Cordaux et al. 2004a; Wells et al. 2001
Pallan	South India	29	5	0.17	Sengupta et al. 2006
Maravar	Tamil Nadu	80	14	0.17	Arunkumar et al. 2012
Pulayar	Tamil Nadu	63	11	0.17	Arunkumar et al. 2012
Kallar	Tamil Nadu	84	13	0.15	Cordaux et al. 2004a; Wells et al. 2001
Nadar Cape	Tamil Nadu	98	15	0.15	Arunkumar et al. 2012
Paravar	Tamil Nadu	27	4	0.15	Arunkumar et al. 2012
Paliyan	Tamil Nadu	95	13	0.14	Arunkumar et al. 2012
Valmiki	Andra Pradesh	24	3	0.13	Cordaux et al. 2004a; Ramana et al. 2001
Thoda	Tamil Nadu	26	3	0.12	Arunkumar et al. 2012
Komati	Andra Pradesh	20	2	0.10	Sahoo et al. 2006

Population	Location	Sample Size	No. H-M69	Freq. H-M69	Reference
Iyengar	South India	30	3	0.10	Sengupta et al. 2006
Poroja	Andra Pradesh	20	2	0.10	Cordaux et al. 2004a; Ramana et al. 2001
Bagata	Andra Pradesh	23	2	0.09	Cordaux et al. 2004a; Ramana et al. 2001
Iyer	South India	29	2	0.07	Sengupta et al. 2006
Vanniyar	Tamil Nadu	21	1	0.05	Arunkumar et al. 2012
Brahui	South Pakistan	25	1	0.04	Sengupta et al. 2006
Brahui	Pakistan	25	1	0.04	Di Cristofaro et al. 2013
Koya Dora	South India	27	1	0.04	Sengupta et al. 2006
Konda Reddy	South India	30	1	0.03	Sengupta et al. 2006
Kammas	Andra Pradesh	40	1	0.03	Cordaux et al. 2004a; Ramana et al. 2001
	Total Sample	3019	Total Hg. H-M69	854	

Supplementary Table 9.5. Austro-Asiatic Populations of South Asia and H1a-M69.

Population	Location	Sample Size	No. H-M69	Freq. H-M69	Reference
Kol	West Bengal	62	26	0.42	Debnath et al. 2011
Santhal	West Bengal	51	22	0.43	Debnath et al. 2011
Kharia	West Bengal	34	6	0.18	Debnath et al. 2011
Saora	Orissa	21	4	0.19	Sahoo and Kashyap 2006
Ho	East India	30	5	0.17	Sengupta et al. 2006
Lodha	East India	20	6	0.30	Sengupta et al. 2006
Munda	Jharkhand	94	32	0.34	Borkar et al. 2011
Birhor	Jharkhand	100	28	0.28	Borkar et al. 2011
Santhal	Jharkhand	90	3	0.03	Borkar et al. 2011
Ho	Jharkhand	28	1	0.04	Borkar et al. 2011
Kols	Uttar Pradesh	30	3	0.11	Sharma et al. 2009
Santhal	Jharkhand; West Bengal	109	43	0.39	Kumar et al. 2007
Bhumij	Jharkhand; West Bengal	89	24	0.27	Kumar et al. 2007
Mudi	Jharkhand; West Bengal	37	16	0.43	Kumar et al. 2007
Mahali	Jharkhand; West Bengal	25	10	0.40	Kumar et al. 2007
Asur	Jharkhand	55	12	0.22	Kumar et al. 2007
Birhor	Jharkhand; West Bengal; Orissa	38	9	0.24	Kumar et al. 2007
Munda	Jharkhand; West Bengal; Orissa	53	13	0.25	Kumar et al. 2007
Ho	Orissa	79	20	0.25	Kumar et al. 2007

Population	Location	Sample Size	No. H-M69	Freq. H-M69	Reference
Korwa	Jharkhand; Chattisgarh	42	14	0.33	Kumar et al. 2007
Korku	Maharashtra	59	5	0.08	Kumar et al. 2007
Kharia	Jharkhand; West Bengal; Orissa	36	12	0.33	Kumar et al. 2007
Savar	Jharkhand; West Bengal; Orissa	47	15	0.32	Kumar et al. 2007
Lodha	West Bengal	47	7	0.15	Kumar et al. 2007
Khasi	Khasi Hills; Jaintia Hills; Meghalaya	92	6	0.07	Kumar et al. 2007
	Total Sample	1368	Total Hg. H-M69	342	

Supplementary Table 9.6. Tibeto-Burman Populations of South Asia and H1a-M69.

Population	Location	Branch	Sample Size	No. H-M69	Freq. H-M69	Reference
Rabha	West Bengal	Tibeto-Burman	26	4	0.15	Debnath et al. 2011
Apatani	Northeast India	Tibeto-Burman	33	3	0.09	Cordaux et al. 2004b
Garo	Meghalaya	Tibeto-Burman	33	3	0.09	Kumar et al. 2007
Dhimal	West Bengal	Tibeto-Burman	36	3	0.08	Debnath et al. 2011
Lachung	Sikkim	Tibeto-Burman	20	1	0.05	Borkar et al. 2011
Mizo	Northeast India	Tibeto-Burman	27	1	0.04	Sengupta et al. 2006
Jamatia	Northeast India	Tibeto-Burman	30	1	0.03	Sengupta et al. 2006
Nishi	Northeast India	Tibeto-Burman	51	1	0.02	Cordaux et al. 2004b
Adi	Northeast India	Tibeto-Burman	55	1	0.02	Cordaux et al. 2004b
	Total Sample Size	311	Total Hg. H-M69	18		

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Supplementary Tables for Chapter Ten and Haplogroup I-M170



Supplementary Table 10.1. Contemporary Distribution of I-M170.

Region	Language Group	Language Family	Population	Location	Sample Size	I-M170	Reference
Baltic							
	Baltic						
		Indo-European	Lithuanians	Lithuania	164	12%	Lappalainen et al. 2008
		Indo-European	Latvians	Latvia	113	7%	Lappalainen et al. 2008
		Indo-European	Latvians	Latvia	86	7%	Rootsi et al. 2004
	Uralic						
		Uralic	Estonians	Estonia	210	19%	Underhill et al. 2007
		Uralic	Sami	Kola Peninsula	23	17%	Tambets et al. 2004
		Uralic	Estonians	Estonia	118	17%	Lappalainen et al. 2008
		Uralic	Karelians	Russia	132	17%	Lappalainen et al. 2008
		Uralic	Karelians	Russia	140	10%	Underhill et al. 2007
		Uralic	Veps	Baltic	39	5%	Underhill et al. 2007
Caucasus							
	Armenian						
		Indo-European	Armenians Adigei	Russia. Adygea. Maikop district	49	12%	Balanovsky et al. 2017
		Indo-European	Armenians Hemshin	Russia. Krasnodar region	89	9%	Balanovsky et al. 2017
		Indo-European	Armenians Krasnodar	Russia. Krasnodar region	117	9%	Balanovsky et al. 2017
		Indo-European	Armenians Gardman	Armenia	96	8%	Herrera et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	I-M170	Reference
		Indo-European	Armenians Don	Russia. Rostov region. Myasnikovsky district	92	5%	Balanovsky et al. 2017
		Indo-European	Armenians Alashkert and Bayazet	Armenia	200	4%	Hovhannisyan et. al 2014
		Indo-European	Aremenians Erzurum	Georgia. Samtskhe-Javakheti	99	4%	Balanovsky et al. 2017
		Indo-European	Armenians Ararat	Armenia	110	3%	Herrera et al. 2012
		Indo-European	Armenians Salmast	Armenia	199	2%	Hovhannisyan et. al 2014
		Indo-European	Armenians Karabakh	Karabakh, Armenia and Azerbaijan	105	2%	Hovhannisyan et. al 2014
		Indo-European	Armenians Van	Armenia	103	2%	Herrera et al. 2012
		Indo-European	Armenians Syunik	Armenia	105	1%	Hovhannisyan et. al 2014
	Iranian						
		Indo-European	South Ossetians	Georgia	21	5%	Yunusbayev et al. 2012
	Kartvelian						
		Kartvelian	Georgians	Georgia	65	3%	Yunusbayev et al. 2012
		Kartvelian	Georgians	Georgia	66	2%	Battaglia et al. 2009
	North Caucasian						
		North Caucasian	Andis	Caucasus Russia	49	27%	Yunusbayev et al. 2012
		North Caucasian	Lezgians	Caucasus Russia	31	27%	Yunusbayev et al. 2012
		North Caucasian	Laks	Daghestan	22	18%	Karafet et al. 2016
		North Caucasian	Avar	Daghestan	33	6%	Karafet et al. 2016

Region	Language Group	Language Family	Population	Location	Sample Size	I-M170	Reference
		North Caucasian	Adyghe	Caucasus Russia	154	5%	Yunusbayev et al. 2012
		North Caucasian	Kabardians	Caucasus Russia	140	4%	Yunusbayev et al. 2012
		North Caucasian	Abazins	Caucasus	88	3%	Yunusbayev et al. 2012
		North Caucasian	Abkhaz	Georgia	162	3%	Yunusbayev et al. 2012
	Turkic						
		Turkic	Nogais, Kara	Caucasus Russia	76	13%	Yunusbayev et al. 2012
		Turkic	Karachays	Caucasus Russia	69	9%	Yunusbayev et al. 2012
		Turkic	Balkars	Caucasus	38	3%	Battaglia et al. 2009
Central Asia							
	Iranian						
		Indo-European	Tajiks Balkh	Afghanistan	54	4%	Di Cristofaro et al. 2013
		Indo-European	Tajiks	Tajikistan	40	3%	Malyarchuk et al. 2013
		Indo-European	Tajiks Takhar	Afghanistan	35	3%	Di Cristofaro et al. 2013
		Indo-European	Hazara	Afghanistan	60	3%	Haber et al. 2012
		Indo-European	Tajiks	Afghanistan	56	2%	Haber et al. 2012
	Turkic						
		Turkic	Kazakh	Kazakhstan-Zhanakorgan District	94	6%	Zhabagin et al. 2017
		Turkic	Uzbek	Uzbekistan-Xorezm Region	98	5%	Zhabagin et al. 2017
		Turkic	Karakalpak	Uzbekistan-Karakalpakstan	100	5%	Zhabagin et al. 2017

Region	Language Group	Language Family	Population	Location	Sample Size	I-M170	Reference
East Asia							
	Mongolic						
		Mongolic	Mongols	Mongolia	97	1%	Di Cristofaro et al. 2013
Eastern Europe							
	Albanian						
		Indo-European	Albanians	Macedonia	64	17%	Battaglia et al. 2009
	East Slavic						
		Indo-European	Arkangelsk	Northwestern Russia	28	50%	Mirabal et al. 2009
		Indo-European	Russians	Kostroma, Russia	53	26%	Underhill et al. 2007
		Indo-European	Ukrainians	Ukraine	506	26%	Underhill et al. 2007
		Indo-European	Cossac	Russia	89	25%	Underhill et al. 2007
		Indo-European	Belarusians	Belarus	565	23%	Kushniarevich et al. 2013
		Indo-European	Russians	Voronez, Russia	96	20%	Underhill et al. 2007
		Indo-European	Russians	Southern Russia	484	20%	Balanovsky et al. 2008
		Indo-European	Tver	Northwestern Russia	38	18%	Mirabal et al. 2009
		Indo-European	Russians	Central Russia	364	18%	Balanovsky et al. 2008
		Indo-European	Russians	Smolensk, Russia	103	13%	Underhill et al. 2007
		Indo-European	Russians (Kursk)	Northwestern Russia	40	13%	Mirabal et al. 2009
		Indo-European	Ukrainians	Ukraine	92	2%	Battaglia et al. 2009
	Greek						
		Indo-European	Greeks	Macedonia	57	30%	Battaglia et al. 2009
	Indo-Aryan						

Region	Language Group	Language Family	Population	Location	Sample Size	I-M170	Reference
		Indo-European	Romani	Hungary	194	15%	Pamjav et al. 2011
		Indo-European	Romani	Slovakia	200	15%	Petřejčíková et al. 2009
		Indo-European	Romani	Slovakia	62	11%	Pamjav et al. 2011
	Italic	Indo-European	Moldavians	Moldova	125	29%	Varzari et al. 2013
	South Slavic	Indo-European	Croats	Bosnia-Herzegovina	90	73%	Battaglia et al. 2009
		Indo-European	Bosniacs	Bosnia-Herzegovina	84	50%	Battaglia et al. 2009
		Indo-European	Croats	Croatia	89	44%	Battaglia et al. 2009
		Indo-European	Bosniacs	Bosnia	100	42%	Underhill et al. 2007
		Indo-European	Serbs	Bosnia-Herzegovina	81	41%	Battaglia et al. 2009
		Indo-European	Croats	Croatia	720	39%	Sarac et al. 2016
		Indo-European	Serbs	Serbia	102	38%	Regueiro et al. 2012.
		Indo-European	Croats, Osijek	Croatia	29	28%	Battaglia et al. 2009
		Indo-European	Bulgarians	Bulgaria	808	26%	Karachanak et al. 2013
	Turkic	Turkic	Kazan Tatars	Volga-Ural Region, Russia	53	13%	Trofimova et al. 2015
		Turkic	Tuymazinsky Tatars	Volga-Ural Region, Russia	50	12%	Trofimova et al. 2015
		Turkic	Chuvash	Volga-Ural Region, Russia	44	11%	Trofimova et al. 2015
		Turkic	Chuvash	Eastern Europe	80	11%	Rootsi et al. 2004
	Uralic	Uralic	Hungarians	Hungary	215	28%	Völgyi et al. 2009

Region	Language Group	Language Family	Population	Location	Sample Size	I-M170	Reference
		Uralic	Hungarians	Hungary	113	26%	Underhill et al. 2007
		Uralic	Hungarians	Hungary	100	24%	Csányi et al 2008
		Uralic	Szeklers	Corund, Romania	97	22%	Csányi et al 2008
		Uralic	Mordvins	Eastern Europe	83	19%	Rootsi et al. 2004
		Uralic	Hungarians	Hungary	53	18%	Battaglia et al. 2009
		Uralic	Besermyan	Volga-Ural Region, Russia	53	6%	Trofimova et al. 2015
		Uralic	Mordvins	Volga-Ural Region, Russia	59	5%	Trofimova et al. 2015
		Uralic	Udmurt	Eastern Europe	132	2%	Rootsi et al. 2004
		Uralic	Komi	Northwestern Russia	54	2%	Mirabal et al. 2009
West Slavic							
		Indo-European	Czechs	Czech Republic	47	32%	Underhill et al. 2007
		Indo-European	Slovenes	Slovenia	75	31%	Battaglia et al. 2009
		Indo-European	Czechs	Czech Republic	75	28%	Battaglia et al. 2009
		Indo-European	Slovenes	Slovenia	95	26%	Underhill et al. 2007
		Indo-European	Slovenes	Slovenia	399	25%	Zupan et al. 2013
		Indo-European	Slovaks	Slovakia	156	23%	Novackova et al. 2015
		Indo-European	Czechs	Czech Republic	257	18%	Luca et al. 2007
		Indo-European	Czechs	Czech Republic	53	17%	Underhill et al. 2007
		Indo-European	Slovaks	Slovakia	70	14%	Underhill et al. 2007
		Indo-European	Poles	Poland	99	4%	Battaglia et al. 2009
Mediterranean							
Albanian							
		Indo-European	Arbereshe	Italy	150	30%	Sarno et al. 2016

Region	Language Group	Language Family	Population	Location	Sample Size	I-M170	Reference
		Indo-European	Albanians	Albania	55	22%	Battaglia et al. 2009
		Indo-European	Albanians	Albania	223	14%	Sarno et al. 2016
Greek							
		Indo-European	Lerna/Franchthi Cave	Greece	57	21%	King et al. 2011
		Indo-European	Greeks	Greece	171	16%	Underhill et al. 2007
		Indo-European	Greeks (Phokaia)	Greece	31	16%	King et al. 2011
		Indo-European	Greeks (Seskio/Dimini)	Greece	57	14%	King et al. 2011
		Indo-European	Nea Nikomedeia	Greece	57	12%	King et al. 2011
		Indo-European	Greeks (Smyrna)	Greece	58	12%	King et al. 2011
		Indo-European	Cretans	Crete	168	10%	Martinez et al. 2007
		Indo-European	Greeks	Greece	92	10%	Battaglia et al. 2009
		Indo-European	Greek Cypriots	Cyprus	629	3%	Voskarides et al. 2016.
Italic							
		Indo-European	Sardinians	Sardinia	1194	41%	Francalacci et al. 2015
		Indo-European	Sardinians	Sardinia	930	37%	Contu et al. 2008
		Indo-European	Italians	Northeastern Italy	67	20%	Battaglia et al. 2009
		Indo-European	Sicilians	Sicily	236	8%	Di Gaetano et al. 2009
		Indo-European	Italians	Central Italy	196	7%	Rootsi et al. 2004
		Indo-European	Italians	Northern Italy	194	5%	Rootsi et al. 2004
Middle East							
Armenian							
		Indo-European	Armenians Western Historical	Lebanon	148	4%	Hovhannisyan et. al 2014

Region	Language Group	Language Family	Population	Location	Sample Size	I-M170	Reference
Iranian							
		Indo-European	Kurds	Iran	25	4%	Malyarchuk et al. 2013
		Indo-European	Hazara	Iran	69	3%	Di Cristofaro et al. 2013
		Indo-European	Persians	Iran	77	3%	Malyarchuk et al. 2013
		Indo-European	Gilaki	Iran	64	2%	Grugni et al. 2012
Turkic							
		Turkic	Turks (Northwest Anatolia)	Turkey	52	12%	King et al. 2011
		Turkic	Turks (Western Anatolia)	Turkey	30	7%	King et al. 2011
		Turkic	Turks	Turkey	523	5%	Cinniöğlu et al. 2004
		Turkic	Turks	Turkey	523	5%	Underhill et al. 2007
		Turkic	Central Anatolia	Turkey	90	4%	King et al. 2011
		Turkic	Turks (Mediterranean Anatolia)	Turkey	33	3%	King et al. 2011
Northern Eurasia							
East Slavic							
		Indo-European	Russians	Pskov, Russia	130	17%	Underhill et al. 2007
		Indo-European	Russians	Arkhangelsk, Russia	145	16%	Underhill et al. 2007
		Indo-European	Russians	Northern Russia	380	13%	Balanovsky et al. 2008
Uralic							
		Uralic	Komi	Volga-Ural Region, Russia	40	8%	Trofimova et al. 2015

Region	Language Group	Language Family	Population	Location	Sample Size	I-M170	Reference
		Uralic	Komi	Northern Eurasia	110	5%	Rootsi et al. 2004
Scandinavia							
	North Germanic						
		Indo-European	Swedes	Sweden	305	42%	Karlsson et al. 2006
		Indo-European	Norwegians	Norway	72	40%	Rootsi et al. 2004
		Indo-European	Danes	Denmark	122	39%	Underhill et al. 2007
		Indo-European	Danes	Denmark	241	38%	Olofsson et al. 2015
		Indo-European	Swedes	Sweden	160	38%	Lappalainen et al. 2008
		Indo-European	Swedes	Osterbotten	40	20%	Karlsson et al. 2006
	Uralic						
		Uralic	Sami	Finland	69	41%	Tambets et al. 2004
		Uralic	Finns (Western Finland)	Finland	230	41%	Lappalainen et al. 2008
		Uralic	Sami	Sweden	38	32%	Karlsson et al. 2006
		Uralic	Sami	Sweden	35	31%	Tambets et al. 2004
		Uralic	Finns (Eastern Finland)	Finland	306	20%	Lappalainen et al. 2008
South Asia							
	Iranian						
		Indo-European	Hazara	Pakistan	25	4%	Di Cristofaro et al. 2013
Western Europe							
	Celtic						
		Indo-European	Scots	Scotland	178	11%	Rootsi et al. 2004
	Indo-Aryan						

Region	Language Group	Language Family	Population	Location	Sample Size	I-M170	Reference
	Isolate	Indo-European	Romani	Portugal	126	10%	Gusmão et al. 2008
		Isolate	Basques	France and Spain	100	6%	Rootsi et al. 2004
	Italic	Indo-European	French (Normandy)	France	42	21%	Underhill et al. 2007
		Indo-European	French	France	58	17%	Underhill et al. 2007
		Indo-European	Jacetania	Pyrenees Mountains, Spain and France	31	16%	López-Parra et al. 2009
		Indo-European	French	Southern France	38	16%	Rootsi et al. 2004
		Indo-European	Cinco Villas	Pyrenees Mountains, Spain and France	42	14%	López-Parra et al. 2009
		Indo-European	Valle de Aran	Pyrenees Mountains, Spain and France	25	12%	López-Parra et al. 2009
		Indo-European	Irish	Ireland	100	11%	Underhill et al. 2007
		Indo-European	Galicians	Galicia	44	10%	Santos et al. 2014a
		Indo-European	Valencians	Valencia	59	9%	Santos et al. 2014a
		Indo-European	Catalonians	Catalan	111	9%	Santos et al. 2014a
		Indo-European	Spanish	Zamora Province	235	8%	Alvarez et al. 2014.
		Indo-European	French	Bernais	26	8%	Rootsi et al. 2004
		Indo-European	Cerdana	Pyrenees Mountains, Spain and France	37	8%	López-Parra et al. 2009
		Indo-European	Provence	France	51	6%	King et al. 2011
		Indo-European	Portuguese	Portugal	303	5%	Rootsi et al. 2004
	Indo-European	French	Lyon and Portier, France	99	4%	Rootsi et al. 2004	
	Indo-European	Andalusians	Andalusia	103	4%	Rootsi et al. 2004	
	Indo-European	Alto Urgel	Pyrenees Mountains, Spain and France	34	3%	López-Parra et al. 2009	

Region	Language Group	Language Family	Population	Location	Sample Size	I-M170	Reference
West Germanic							
		Indo-European	Germans	Germany	125	24%	Underhill et al. 2007
		Indo-European	Dutch	Netherlands	93	20%	Underhill et al. 2007
		Indo-European	Flemish	Flanders Region, Netherlands and Belgium	773	20%	Larmuseau et al 2014.
		Indo-European	English	United Kingdom	104	19%	Underhill et al. 2007
		Indo-European	Austrians	Austria	43	9%	Underhill et al. 2007

Supplementary Table 10.2. Contemporary Distribution of I1-M253.

Region	Language Group	Language Family	Population	Location	Sample Size	I1-M253	Reference
Baltic							
	Baltic						
		Indo-European	Lithuanians	Lithuania	164	5%	Lappalainen et al. 2008
		Indo-European	Latvians	Latvia	86	5%	Rootsi et al. 2004
		Indo-European	Latvians	Latvia	113	4%	Lappalainen et al. 2008
	Uralic						
		Uralic	Karelians	Russia	132	15%	Lappalainen et al. 2008
		Uralic	Estonians	Estonia	210	15%	Underhill et al. 2007
		Uralic	Estonians	Estonia	118	12%	Lappalainen et al. 2008
		Uralic	Karelians	Russia	140	9%	Underhill et al. 2007
		Uralic	Veps	Baltic	39	3%	Underhill et al. 2007
Caucasus							
	Kartvelian						
		Kartvelian	Georgians	Georgia	66	2%	Battaglia et al. 2009
	North Caucasian						
		North Caucasian	Lezgians	Caucasus Russia	31	3%	Yunusbayev et al. 2012
		North Caucasian	Andis	Caucasus Russia	49	2%	Yunusbayev et al. 2012
		North Caucasian	Kabardians	Caucasus Russia	140	1%	Yunusbayev et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	I1-M253	Reference
	Albanian						
		Indo-European	Albanians	Macedonia	64	5%	Battaglia et al. 2009
	East Slavic						
		Indo-European	Arkangelsk	Northwestern Russia	28	14%	Mirabal et al. 2009
		Indo-European	Russians	Kostroma, Russia	53	11%	Underhill et al. 2007
		Indo-European	Tver	Northwestern Russia	38	8%	Mirabal et al. 2009
		Indo-European	Russians	Central Russia	364	5%	Balanovsky et al. 2008
		Indo-European	Russians (Kursk)	Northwestern Russia	40	5%	Mirabal et al. 2009
		Indo-European	Ukrainians	Ukraine	506	5%	Underhill et al. 2007
		Indo-European	Belarusians	Belarus	565	5%	Kushniarevich et al. 2013
		Indo-European	Cossac	Russia	89	5%	Underhill et al. 2007
		Indo-European	Russians	Southern Russia	484	4%	Balanovsky et al. 2008
		Indo-European	Russians	Voronez, Russia	96	3%	Underhill et al. 2007
		Indo-European	Russians	Smolensk, Russia	103	2%	Underhill et al. 2007
		Indo-European	Ukrainians	Ukraine	92	1%	Battaglia et al. 2009
	Greek						
		Indo-European	Greeks	Macedonia	57	7%	Battaglia et al. 2009
	Indo-Aryan						
		Indo-European	Romani	Slovakia	200	14%	Petřejčková et al. 2009
		Indo-European	Romani	Slovakia	62	10%	Pamjav et al. 2011
		Indo-European	Romani	Hungary	194	8%	Pamjav et al. 2011
	Italic						
		Indo-European	Moldavians	Moldova	125	5%	Varzari et al. 2013
	South Slavic						

Region	Language Group	Language Family	Population	Location	Sample Size	I1-M253	Reference
		Indo-European	Croats	Croatia	89	8%	Battaglia et al. 2009
		Indo-European	Serbs	Serbia	102	8%	Regueiro et al. 2012.
		Indo-European	Bosniacs	Bosnia-Herzegovina	84	4%	Battaglia et al. 2009
		Indo-European	Bulgarians	Bulgaria	808	4%	Karachanak et al. 2013
		Indo-European	Croats	Croatia	720	4%	Sarac et al. 2016
		Indo-European	Serbs	Bosnia-Herzegovina	81	3%	Battaglia et al. 2009
		Indo-European	Bosniacs	Bosnia	100	2%	Underhill et al. 2007
	Uralic	Uralic	Szeklers	Corund, Romania	97	17%	Csányi et al 2008
		Uralic	Hungarians	Hungary	113	13%	Underhill et al. 2007
		Uralic	Mordvins	Eastern Europe	83	12%	Rootsi et al. 2004
		Uralic	Hungarians	Hungary	100	8%	Csányi et al 2008
		Uralic	Hungarians	Hungary	215	8%	Völgyi et al. 2009
		Uralic	Hungarians	Hungary	53	4%	Battaglia et al. 2009
		Uralic	Komi	Northwestern Russia	54	2%	Mirabal et al. 2009
	West Slavic						
		Indo-European	Slovenes	Slovenia	399	12%	Zupan et al. 2013
		Indo-European	Czechs	Czech Republic	47	9%	Underhill et al. 2007
		Indo-European	Czechs	Czech Republic	75	9%	Battaglia et al. 2009
		Indo-European	Slovenes	Slovenia	75	7%	Battaglia et al. 2009
		Indo-European	Slovenes	Slovenia	95	7%	Underhill et al. 2007
		Indo-European	Czechs	Czech Republic	257	5%	Luca et al. 2007
		Indo-European	Poles	Poland	99	4%	Battaglia et al. 2009
		Indo-European	Slovaks	Slovakia	70	4%	Underhill et al. 2007

Region	Language Group	Language Family	Population	Location	Sample Size	I1-M253	Reference
		Indo-European	Czechs	Czech Republic	53	2%	Underhill et al. 2007
Mediterranean							
	Albanian						
		Indo-European	Arbereshe	Italy	150	5%	Sarno et al. 2016
		Indo-European	Albanians	Albania	223	4%	Sarno et al. 2016
		Indo-European	Albanians	Albania	55	4%	Battaglia et al. 2009
	Greek						
		Indo-European	Greeks (Phokaia)	Greece	31	6%	King et al. 2011
		Indo-European	Greeks (Smyrna)	Greece	58	5%	King et al. 2011
		Indo-European	Greeks (Seskio/Dimini)	Greece	57	4%	King et al. 2011
		Indo-European	Cretans	Crete	168	3%	Martinez et al. 2007
		Indo-European	Greeks	Greece	171	2%	Underhill et al. 2007
		Indo-European	Nea Nikomedeia	Greece	57	2%	King et al. 2011
		Indo-European	Lerna/Franchthi Cave	Greece	57	2%	King et al. 2011
		Indo-European	Greeks	Greece	92	2%	Battaglia et al. 2009
	Italic						
		Indo-European	Italians	Northeastern Italy	67	9%	Battaglia et al. 2009
		Indo-European	Sicilians	Sicily	236	5%	Di Gaetano et al. 2009
		Indo-European	Italians	Northern Italy	194	3%	Rootsi et al. 2004
		Indo-European	Italians	Central Italy	196	2%	Rootsi et al. 2004
Middle East							
	Iranian						
		Indo-European	Gilaki	Iran	64	2%	Grugni et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	I1-M253	Reference
Turkic							
		Turkic	Turks (Northwest Anatolia)	Turkey	52	6%	King et al. 2011
		Turkic	Turks (Mediterranean Anatolia)	Turkey	33	3%	King et al. 2011
		Turkic	Turks	Turkey	523	1%	Cinnioğlu et al. 2004
		Turkic	Turks	Turkey	523	1%	Underhill et al. 2007
		Turkic	Central Anatolia	Turkey	90	1%	King et al. 2011
Northern Eurasia							
East Slavic							
		Indo-European	Russians	Arkhangelsk, Russia	145	8%	Underhill et al. 2007
		Indo-European	Russians	Northern Russia	380	6%	Balanovsky et al. 2008
		Indo-European	Russians	Pskov, Russia	130	5%	Underhill et al. 2007
Uralic							
		Uralic	Komi	Northern Eurasia	110	4%	Rootsi et al. 2004
Scandinavia							
North Germanic							
		Indo-European	Norwegians	Norway	72	39%	Rootsi et al. 2004
		Indo-European	Swedes	Sweden	305	37%	Karlsson et al. 2006
		Indo-European	Swedes	Sweden	160	36%	Lappalainen et al. 2008
		Indo-European	Danes	Denmark	122	33%	Underhill et al. 2007
		Indo-European	Danes	Denmark	241	33%	Olofsson et al. 2015
		Indo-European	Swedes	Osterbotten	40	20%	Karlsson et al. 2006
Uralic							

Region	Language Group	Language Family	Population	Location	Sample Size	I1-M253	Reference
		Uralic	Finns (Western Finland)	Finland	230	40%	Lappalainen et al. 2008
		Uralic	Sami	Sweden	38	32%	Karlsson et al. 2006
		Uralic	Finns (Eastern Finland)	Finland	306	19%	Lappalainen et al. 2008
Western Europe							
	Indo-Aryan						
		Indo-European	Romani	Portugal	126	10%	Gusmão et al. 2008
	Italic						
		Indo-European	French	France	58	17%	Underhill et al. 2007
		Indo-European	French (Normandy)	France	42	12%	Underhill et al. 2007
		Indo-European	Galicians	Galicia	44	9%	Santos et al. 2014a
		Indo-European	Valencians	Valencia	59	7%	Santos et al. 2014a
		Indo-European	Irish	Ireland	100	6%	Underhill et al. 2007
		Indo-European	French	Southern France	38	5%	Rootsi et al. 2004
		Indo-European	Catalonians	Catalan	111	5%	Santos et al. 2014a
		Indo-European	Spanish	Zamora Province	235	4%	Alvarez et al. 2014.
		Indo-European	Provence	France	51	2%	King et al. 2011
		Indo-European	French	Lyon and Portier, France	99	2%	Rootsi et al. 2004
		Indo-European	Portuguese	Portugal	303	1%	Rootsi et al. 2004
	West Germanic						
		Indo-European	Germans	Germany	125	15%	Underhill et al. 2007
		Indo-European	Dutch	Netherlands	93	15%	Underhill et al. 2007
		Indo-European	English	United Kingdom	104	15%	Underhill et al. 2007

Region	Language Group	Language Family	Population	Location	Sample Size	I1-M253	Reference
		Indo-European	Flemish	Flanders Region, Netherlands and Belgium	773	12%	Larmuseau et al 2014.
		Indo-European	Austrians	Austria	43	2%	Underhill et al. 2007

Supplementary Table 10.3. Contemporary Distribution of I2a-M423.

Region	Language Group	Language Family	Population	Location	Sample Size	I2a-M423	Reference
Baltic							
	Uralic						
		Uralic	Veps	Baltic	39	3%	Underhill et al. 2007
		Uralic	Estonians	Estonia	210	3%	Underhill et al. 2007
		Uralic	Karelians	Russia	140	1%	Underhill et al. 2007
Eastern Europe							
	Albanian						
		Indo-European	Albanians	Macedonia	64	9%	Battaglia et al. 2009
	East Slavic						
		Indo-European	Ukrainians	Ukraine	506	20%	Underhill et al. 2007
		Indo-European	Cossac	Russia	89	17%	Underhill et al. 2007
		Indo-European	Russians	Voronez, Russia	96	16%	Underhill et al. 2007
		Indo-European	Russians	Kostroma, Russia	53	11%	Underhill et al. 2007
		Indo-European	Russians	Smolensk, Russia	103	11%	Underhill et al. 2007
	Greek						
		Indo-European	Greeks	Macedonia	57	18%	Battaglia et al. 2009
	Italic						
		Indo-European	Moldavians	Moldova	125	21%	Varzari et al. 2013
	South Slavic						
		Indo-European	Croats	Bosnia-Herzegovina	90	73%	Battaglia et al. 2009
		Indo-European	Bosniacs	Bosnia-Herzegovina	84	43%	Battaglia et al. 2009
		Indo-European	Bosniacs	Bosnia	100	40%	Underhill et al. 2007

Region	Language Group	Language Family	Population	Location	Sample Size	I2a-M423	Reference
		Indo-European	Serbs	Bosnia-Herzegovina	81	35%	Battaglia et al. 2009
		Indo-European	Croats	Croatia	89	33%	Battaglia et al. 2009
		Indo-European	Croats	Croatia	720	33%	Sarac et al. 2016
		Indo-European	Serbs	Serbia	102	29%	Regueiro et al. 2012.
		Indo-European	Croats, Osijek	Croatia	29	28%	Battaglia et al. 2009
		Indo-European	Bulgarians	Bulgaria	808	20%	Karachanak et al. 2013
	Turkic						
		Turkic	Chuvash	Eastern Europe	80	8%	Rootsi et al. 2004
	Uralic						
		Uralic	Hungarians	Hungary	53	14%	Battaglia et al. 2009
		Uralic	Hungarians	Hungary	113	11%	Underhill et al. 2007
	West Slavic						
		Indo-European	Slovenes	Slovenia	75	20%	Battaglia et al. 2009
		Indo-European	Slovenes	Slovenia	95	19%	Underhill et al. 2007
		Indo-European	Czechs	Czech Republic	47	17%	Underhill et al. 2007
		Indo-European	Czechs	Czech Republic	75	17%	Battaglia et al. 2009
		Indo-European	Slovenes	Slovenia	399	13%	Zupan et al. 2013
		Indo-European	Czechs	Czech Republic	53	11%	Underhill et al. 2007
		Indo-European	Slovaks	Slovakia	70	10%	Underhill et al. 2007
Mediterranean							
	Albanian						
		Indo-European	Albanians	Albania	55	15%	Battaglia et al. 2009
	Greek						
		Indo-European	Lerna/Franchthi Cave	Greece	57	12%	King et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	I2a-M423	Reference
		Indo-European	Nea Nikomedeia	Greece	57	9%	King et al. 2011
		Indo-European	Greeks (Seskio/Dimini)	Greece	57	7%	King et al. 2011
		Indo-European	Greeks	Greece	92	7%	Battaglia et al. 2009
		Indo-European	Greeks (Smyrna)	Greece	58	5%	King et al. 2011
		Indo-European	Greeks (Phokaia)	Greece	31	3%	King et al. 2011
		Indo-European	Greeks	Greece	171	3%	Underhill et al. 2007
		Indo-European	Greek Cypriots	Cyprus	629	2%	Voskarides et al. 2016.
	Italic						
		Indo-European	Italians	Northeastern Italy	67	9%	Battaglia et al. 2009
Middle East							
	Turkic						
		Turkic	Turks (Western Anatolia)	Turkey	30	7%	King et al. 2011
		Turkic	Turks (Northwest Anatolia)	Turkey	52	2%	King et al. 2011
		Turkic	Turks	Turkey	523	2%	Underhill et al. 2007
		Turkic	Central Anatolia	Turkey	90	1%	King et al. 2011
Northern Eurasia							
	East Slavic						
		Indo-European	Russians	Pskov, Russia	130	10%	Underhill et al. 2007
		Indo-European	Russians	Arkhangelsk, Russia	145	6%	Underhill et al. 2007
Western Europe							
	Italic						
		Indo-European	Irish	Ireland	100	2%	Underhill et al. 2007

Region	Language Group	Language Family	Population	Location	Sample Size	I2a-M423	Reference
West Germanic							
		Indo-European	Austrians	Austria	43	5%	Underhill et al. 2007
		Indo-European	English	United Kingdom	104	1%	Underhill et al. 2007

Supplementary Table 10.4. Contemporary Distribution of I2a-M26.

Region	Language Group	Language Family	Population	Location	Sample Size	I2a-M26	Reference
Eastern Europe							
	Albanian						
		Indo-European	Albanians	Macedonia	64	2%	Battaglia et al. 2009
	West Slavic						
		Indo-European	Czechs	Czech Republic	257	1%	Luca et al. 2007
Mediterranean							
	Albanian						
		Indo-European	Arbereshe	Italy	150	2%	Sarno et al. 2016
	Italic						
		Indo-European	Sardinians	Sardinia	1194	40%	Francalacci et al. 2015
		Indo-European	Sardinians	Sardinia	930	37%	Contu et al. 2008
		Indo-European	Italians	Central Italy	196	1%	Rootsi et al. 2004
Western Europe							
	Indo-Aryan						
		Indo-European	Romani	Portugal	126	1%	Gusmão et al. 2008
	Isolate						
		Isolate	Basques	France and Spain	100	6%	Rootsi et al. 2004
	Italic						
		Indo-European	Cerdana	Pyrenees Mountains, Spain and France	37	16%	López-Parra et al. 2009
		Indo-European	Jacetania	Pyrenees Mountains, Spain and France	31	10%	López-Parra et al. 2009
		Indo-European	Cinco Villas	Pyrenees Mountains, Spain and France	42	10%	López-Parra et al. 2009

Region	Language Group	Language Family	Population	Location	Sample Size	I2a-M26	Reference
		Indo-European	French	Bernais	26	8%	Rootsi et al. 2004
		Indo-European	Valle de Aran	Pyrenees Mountains, Spain and France	25	8%	López-Parra et al. 2009
		Indo-European	Catalonians	Catalan	111	4%	Santos et al. 2014a
		Indo-European	French (Normandy)	France	42	3%	Underhill et al. 2007
		Indo-European	Alto Urgel	Pyrenees Mountains, Spain and France	34	3%	López-Parra et al. 2009
		Indo-European	Irish	Ireland	100	2%	Underhill et al. 2007
		Indo-European	Valencians	Valencia	59	1%	Santos et al. 2014a
		Indo-European	Galicians	Galicia	44	1%	Santos et al. 2014a
		Indo-European	French	Lyon and Portier, France	99	1%	Rootsi et al. 2004

Supplementary Table 10.5. Contemporary Distribution of I2a-M223.

Region	Language Group	Language Family	Population	Location	Sample Size	I2a-M223	Reference
Baltic							
	Baltic						
		Indo-European	Lithuanians	Lithuania	164	2%	Lappalainen et al. 2008
		Indo-European	Latvians	Latvia	113	1%	Lappalainen et al. 2008
		Indo-European	Latvians	Latvia	86	1%	Rootsi et al. 2004
	Uralic						
		Uralic	Estonians	Estonia	118	1%	Lappalainen et al. 2008
		Uralic	Estonians	Estonia	210	1%	Underhill et al. 2007
Central Asia							
	Iranian						
		Indo-European	Hazara	Afghanistan	60	3%	Haber et al. 2012
		Indo-European	Tajiks	Afghanistan	56	2%	Haber et al. 2012
Eastern Europe							
	East Slavic						
		Indo-European	Russians	Kostroma, Russia	53	4%	Underhill et al. 2007
		Indo-European	Russians	Central Russia	364	2%	Balanovsky et al. 2008
		Indo-European	Cossac	Russia	89	2%	Underhill et al. 2007
		Indo-European	Russians	Southern Russia	484	1%	Balanovsky et al. 2008
		Indo-European	Belarusians	Belarus	565	1%	Kushniarevich et al. 2013
	Italic						
		Indo-European	Moldavians	Moldova	125	1%	Varzari et al. 2013
	South Slavic						
		Indo-European	Bulgarians	Bulgaria	808	2%	Karachanak et al. 2013

Region	Language Group	Language Family	Population	Location	Sample Size	I2a-M223	Reference
		Indo-European	Serbs	Bosnia-Herzegovina	81	1%	Battaglia et al. 2009
		Indo-European	Croats	Croatia	89	1%	Battaglia et al. 2009
		Indo-European	Croats	Croatia	720	1%	Sarac et al. 2016
		Indo-European	Serbs	Serbia	102	1%	Regueiro et al. 2012.
	Turkic						
		Turkic	Chuvash	Eastern Europe	80	3%	Rootsi et al. 2004
	Uralic						
		Uralic	Mordvins	Eastern Europe	83	5%	Rootsi et al. 2004
		Uralic	Hungarians	Hungary	215	3%	Völgyi et al. 2009
		Uralic	Hungarians	Hungary	113	2%	Underhill et al. 2007
	West Slavic						
		Indo-European	Czechs	Czech Republic	47	6%	Underhill et al. 2007
		Indo-European	Slovenes	Slovenia	75	3%	Battaglia et al. 2009
		Indo-European	Czechs	Czech Republic	257	3%	Luca et al. 2007
		Indo-European	Czechs	Czech Republic	53	2%	Underhill et al. 2007
		Indo-European	Czechs	Czech Republic	75	1%	Battaglia et al. 2009
		Indo-European	Slovenes	Slovenia	399	1%	Zupan et al. 2013
Mediterranean							
	Albanian						
		Indo-European	Arbereshe	Italy	150	10%	Sarno et al. 2016
		Indo-European	Albanians	Albania	55	4%	Battaglia et al. 2009
		Indo-European	Albanians	Albania	223	2%	Sarno et al. 2016
	Greek						
		Indo-European	Greeks (Phokaia)	Greece	31	6%	King et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	I2a-M223	Reference
		Indo-European	Greeks (Seskio/Dimini)	Greece	57	4%	King et al. 2011
		Indo-European	Nea Nikomedeia	Greece	57	2%	King et al. 2011
		Indo-European	Lerna/Franchthi Cave	Greece	57	2%	King et al. 2011
		Indo-European	Greeks	Greece	171	2%	Underhill et al. 2007
		Indo-European	Cretans	Crete	168	1%	Martinez et al. 2007
	Italic						
		Indo-European	Italians	Central Italy	196	3%	Rootsi et al. 2004
		Indo-European	Italians	Northeastern Italy	67	2%	Battaglia et al. 2009
		Indo-European	Sardinians	Sardinia	1194	2%	Francalacci et al. 2015
		Indo-European	Italians	Northern Italy	194	1%	Rootsi et al. 2004
Middle East							
	Iranian						
		Indo-European	Hazara	Iran	69	1%	Di Cristofaro et al. 2013
	Turkic						
		Turkic	Turks (Northwest Anatolia)	Turkey	52	2%	King et al. 2011
		Turkic	Central Anatolia	Turkey	90	1%	King et al. 2011
		Turkic	Turks	Turkey	523	1%	Cinniöglu et al. 2004
		Turkic	Turks	Turkey	523	1%	Underhill et al. 2007
Scandinavia							
	North Germanic						
		Indo-European	Danes	Denmark	122	5%	Underhill et al. 2007

Region	Language Group	Language Family	Population	Location	Sample Size	I2a-M223	Reference
		Indo-European	Swedes	Sweden	305	5%	Karlsson et al. 2006
		Indo-European	Swedes	Sweden	160	2%	Lappalainen et al. 2008
		Indo-European	Norwegians	Norway	72	1%	Rootsi et al. 2004
	Uralic						
		Uralic	Finns (Western Finland)	Finland	230	1%	Lappalainen et al. 2008
		Uralic	Finns (Eastern Finland)	Finland	306	1%	Lappalainen et al. 2008
South Asia							
	Iranian						
		Indo-European	Hazara	Pakistan	25	4%	Di Cristofaro et al. 2013
Western Europe							
	Italic						
		Indo-European	French (Normandy)	France	42	5%	Underhill et al. 2007
		Indo-European	French	Southern France	38	5%	Rootsi et al. 2004
		Indo-European	Spanish	Zamora Province	235	3%	Alvarez et al. 2014.
		Indo-European	Portuguese	Portugal	303	2%	Rootsi et al. 2004
		Indo-European	Irish	Ireland	100	1%	Underhill et al. 2007
		Indo-European	Andalusians	Andalusia	103	1%	Rootsi et al. 2004
		Indo-European	French	Lyon and Portier, France	99	1%	Rootsi et al. 2004
	West Germanic						
		Indo-European	Germans	Germany	125	6%	Underhill et al. 2007
		Indo-European	Dutch	Netherlands	93	5%	Underhill et al. 2007

Region	Language Group	Language Family	Population	Location	Sample Size	I2a-M223	Reference
		Indo-European	Flemish	Flanders Region, Netherlands and Belgium	773	3%	Larmuseau et al 2014.
		Indo-European	English	United Kingdom	104	1%	Underhill et al. 2007

Supplementary Table 10.6. I-M170 from the Paleolithic.

Culture 2	Region	Master ID	Mutation	Country	Location	Death	Reference
Paleolithic	Mediterranean	Paglicci133	I-M170	Italy	Apulia, Paglicci	32895	Fu et al. 2016
Paleolithic	Western Europe	I1577	I-M170	Austria	Krems-Wachtberg	30950	Fu et al. 2016; Reich Dataset V42.4 (2020)
Paleolithic	Eastern Europe	Pavlov1	I-M170	Czech Republic	Dolni Vestonice	30260	Fu et al. 2016; Reich Dataset V42.4 (2020)
Paleolithic	Western Europe	I10899	I-M170	Spain	Granada, Carihuela Cave	24450	Olalde et al. 2019; Reich Dataset V42.4 (2020)
Paleolithic	Western Europe	HohleFels49	I-M170	Germany	Swabian Jura, Baden-Wurttemberg, Hohle Fels, Ach Valley	15130	Fu et al. 2016; Reich Dataset V42.4 (2020)

Supplementary Table 10.7. Ancient I1-M253 Remains.

Culture 2	Region	Master ID	Mutation	Country	Location	Death	Reference
Paleolithic	Western Europe	BAL051	I1-M253	Spain	Balma Guilanya	13009	Villalba-Mouco et al. 2019; Reich Dataset V42.4 (2020)
Bronze Age	Western Europe	FAD9	I1-M253	France	Pépieux	3700	Brunel et al. 2020
Iron Age	Western Europe	I17268	I1-M253	Great Britain	North Yorkshire, Stockton-on- Tees, Norton, Norton Bishops Mill	1170	Martiniano et al. 2016; Reich Dataset V42.4 (2020)

Supplementary Table 10.8. Ancient I2-M438 Remains.

Culture 2	Region	Master ID	Mutation	Country	Location	Death	Reference
Paleolithic	Western Europe	Rochedane	I2-M438	France	Rochedane	12960	Fu et al. 2016; Reich Dataset V42.4 (2020)
Mesolithic	Scandinavia	Hum2	I2-M438	Norway	Hummervikholmen	9364	Gunther et al. 2018; Reich Dataset V42.4 (2020)
Mesolithic	Eastern Europe	I4607	I2-M438	Romania	Schela Cladovei	8940	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Mesolithic	Scandinavia	SBJ	I2-M438	Sweden	Stora Bjers	8771	Gunther et al. 2018; Reich Dataset V42.4 (2020)
Mesolithic	Eastern Europe	I4870	I2-M438	Serbia	Vlasac	8740	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	I3716	I2-M438	Ukraine	Volniensky, Vilnianka	7349	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	I5886	I2-M438	Ukraine	Dereivka I	7217	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	ROS45	I2-M438	France	Rosheim	6655	Brunel et al. 2020
Neolithic	Western Europe	ROS100	I2-M438	France	Rosheim	6635	Brunel et al. 2020
Copper Age	Eastern Europe	I2353	I2-M438	Hungary	Pusztataskony Ledence 1	6200	Lipson et al. 2017; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	CRE11A	I2-M438	France	Béziers	6100	Brunel et al. 2020
Neolithic	Western Europe	BERG157-1	I2-M438	France	Bergheim	5900	Brunel et al. 2020
Copper Age	Eastern Europe	I2752	I2-M438	Hungary	Balatonlelle, Felső-Gamász	5175	Lipson et al. 2017; Reich Dataset V42.4 (2020)
Copper Age	Eastern Europe	I2754	I2-M438	Hungary	Balatonlelle, Felső-Gamász	5131	Lipson et al. 2017; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	FAD3	I2-M438	France	Pépieux	4917	Brunel et al. 2020
Neolithic	Scandinavia	Gokhem4	I2-M438	Sweden	Gökhem, Västergötland	4850	Skoglund et al. 2014; Reich Dataset V42.4 (2020)

Supplementary Table 10.9. Ancient I2a-P37.2 Remains.

Culture 2	Region	Master ID	Mutation	Country	Location	Death	Reference
Paleolithic	Western Europe	Bichon	I2a-P37.2	Switzerland	Grotte du Bichon	13665	Jones et al. 2015; Reich Dataset V42.4 (2020)
Mesolithic	Eastern Europe	I1763	I2a-P37.2	Ukraine	Vasil'evka	10074	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Mesolithic	Eastern Europe	I5236	I2a-P37.2	Serbia	Padina	10008	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Mesolithic	Scandinavia	I0015	I2a-P37.2	Sweden	Motala, Kanaljorden	7747	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
Mesolithic	Eastern Europe	I1507	I2a-P37.2	Hungary	Tiszaszolos-Domaháza	7660	Gamba et al. 2014; Reich Dataset V42.4 (2020)
Mesolithic	Baltic	I4438	I2a-P37.2	Latvia	Zvejnieki	7291	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Mesolithic	Baltic	I4440	I2a-P37.2	Latvia	Zvejnieki	7080	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	I7197	I2a-P37.2	Czech Republic	Prague 5, Jinonice, Butovická Street	6449	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	I1495	I2a-P37.2	Hungary	Apc-Berekalya I	6374	Gamba et al. 2014; Reich Dataset V42.4 (2020)
Neolithic	Baltic	Spiginas1	I2a-P37.2	Lithuania	Spiginas	6290	Mitnik et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	I7042	I2a-P37.2	Hungary	Szigetszentmiklos-Vozm-telep-dulo	6089	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	I6696	I2a-P37.2	Czech Republic	Velké Žrnoseky	4575	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)

Supplementary Table 10.10. Ancient I2a-M26 Remains.

Culture 2	Region	Master ID	Mutation	Country	Location	Death	Reference
Neolithic	Eastern Europe	I0449	I2a-M26	Hungary	Hódmez Vásárhely, Gorzsa Homokbánya	6700	Lipson et al. 2017; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	ELT006	I2a-M26	Spain	Cova de Els Trocs	5807	Villalba-Mouco et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	ELT002	I2a-M26	Spain	Cova de Els Trocs	5771	Villalba-Mouco et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	prs012	I2a-M26	Ireland	Primrose Grange	5660	Sanchez-Quinto et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	prs016	I2a-M26	Ireland	Primrose Grange	5560	Sanchez-Quinto et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	DolmenAnsiao96B	I2a-M26	Portugal	Dolmen de Ansião	5450	Martiniano et al. 2017; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	prs013/014	I2a-M26	Ireland	Primrose Grange	5450	Sanchez-Quinto et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	prs008/009	I2a-M26	Great Britain	Midhowe Chambered Cairn	5380	Sanchez-Quinto et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I3023	I2a-M26	Great Britain	Wales, Brechnockshire, Hay-on-Wye, Little Lodge	5305	Brace et al. 2019; Reich Dataset V42.4 (2020)
Copper Age	Eastern Europe	I2753	I2a-M26	Hungary	Balatonlelle, Felső-Gamász	5081	Lipson et al. 2017; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I11599	I2a-M26	Portugal	Torres Vedras, CabeÃ§o da Arruda I	5050	Olalde et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I5429	I2a-M26	Portugal	Perdigoes	4899	Olalde et al. 2019; Reich Dataset V42.4 (2020)

Culture 2	Region	Master ID	Mutation	Country	Location	Death	Reference
Neolithic	Western Europe	I11605	I2a-M26	Portugal	Lourinhã, Paimogo	4750	Olalde et al. 2019; Reich Dataset V42.4 (2020)
Copper Age	Mediterranean	RISE489	I2a-M26	Italy	Lombardy, Remedello di Sotto	4693	Allentoft et al. 2015; Reich Dataset V42.4 (2020)
Copper Age	Western Europe	I1303	I2a-M26	Spain	Burgos, Atapuerca, El Mirador Cave	4573	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
Bronze Age	Eastern Europe	I2741	I2a-M26	Hungary	Szigetszentmiklós, Felső Űrge-hegyi dűlő	4256	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Bronze Age	Western Europe	I4229	I2a-M26	Portugal	Cova da Moura	4150	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Bronze Age	Mediterranean	RISE486	I2a-M26	Italy	Lombardy, Remedello di Sotto	3904	Allentoft et al. 2015; Reich Dataset V42.4 (2020)
Bronze Age	Eastern Europe	I1003	I2a-M26	Russia	Kamennyi Ambar 5 Cemetery	3800	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
Bronze Age	Eastern Europe	RISE479	I2a-M26	Hungary	Erd 4	3700	Allentoft et al. 2015; Reich Dataset V42.4 (2020)
Bronze Age	Mediterranean	ISB001_ISB002	I2a-M26	Italy	Sardinia, Su Grutta 'e is Bittuleris	3460	Marcus et al. 2020

Supplementary Table 10.11. Ancient I2a-M423 Remains.

Culture 2	Region	Master ID	Mutation	Country	Location	Death	Reference
Neolithic	Western Europe	I0001	I2a-M423	Luxembourg	Echternach	8050	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Mesolithic	Scandinavia	I0013	I2a-M423	Sweden	Motala, Kanaljorden	7751	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
Mesolithic	Scandinavia	I0017	I2a-M423	Sweden	Motala, Kanaljorden	7626	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	PEN003	I2a-M423	France	Pendimoun	7337	Rivollat et al. 2020
Neolithic	Western Europe	I0412	I2a-M423	Spain	Els Trocs	7144	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	CHA001_merged	I2a-M423	Spain	Cueva de Chaves	7133	Villalba-Mouco et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	CHA003	I2a-M423	Spain	Cueva de Chaves	7097	Villalba-Mouco et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	OBN005	I2a-M423	France	Obernai	6847	Rivollat et al. 2020
Neolithic	Western Europe	LU339	I2a-M423	Portugal	Lorga de Din	6798	Gonzales Fortes et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I4304	I2a-M423	France	Clos de Roque	6639	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I4303	I2a-M423	France	Clos de Roque	6633	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	SX33	I2a-M423	France	Lingolsheim (F)	6601	Furtwangler et al. 2020
Neolithic	Western Europe	OBN011	I2a-M423	France	Obernai	6533	Rivollat et al. 2020
Neolithic	Western Europe	ROS102	I2a-M423	France	Rosheim	6500	Brunel et al. 2020
Neolithic	Western Europe	ROS47	I2a-M423	France	Rosheim	6500	Brunel et al. 2020
Neolithic	Western Europe	ROS115	I2a-M423	France	Rosheim	6500	Brunel et al. 2020
Neolithic	Western Europe	OBN004	I2a-M423	France	Obernai	6499	Rivollat et al. 2020

Culture 2	Region	Master ID	Mutation	Country	Location	Death	Reference
Neolithic	Western Europe	OBN007	I2a-M423	France	Obernai	6350	Rivollat et al. 2020
Neolithic	Western Europe	Cx19	I2a-M423	France	Cugnaux	6242	Brunel et al. 2020
Neolithic	Western Europe	PRI001	I2a-M423	France	Prissé-la-Charrière	6171	Rivollat et al. 2020
Neolithic	Baltic	Kretuonas2	I2a-M423	Lithuania	Kretuonas 1B	6150	Mittnik et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	BERG157-7	I2a-M423	France	Bergheim	6048	Brunel et al. 2020
Neolithic	Western Europe	CRE3	I2a-M423	France	Béziers	6044	Brunel et al. 2020
Neolithic	Western Europe	LugarCanto45	I2a-M423	Portugal	Lugar do Canto	5950	Martiniano et al. 2017; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	BERG157-5	I2a-M423	France	Bergheim	5900	Brunel et al. 2020
Neolithic	Scandinavia	Steigen	I2a-M423	Norway	Steigen	5857	Gunther et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	VT5-7	I2a-M423	France	Villeneuve-Tolosane	5700	Brunel et al. 2020
Neolithic	Western Europe	BERG746	I2a-M423	France	Bergheim	5666	Brunel et al. 2020
Neolithic	Western Europe	I2796	I2a-M423	Great Britain	Scotland, Orkney, Point of Cott	5571	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I2634	I2a-M423	Great Britain	Scotland, Tulach an t'Sionnach	5569	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I6759	I2a-M423	Great Britain	England, North Yorkshire, Kelco Cave, Giggleswick Scar	5536	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I6759	I2a-M423	Great Britain	England, North Yorkshire, Kelco Cave, Giggleswick Scar	5536	Olalde et al. 2018; Reich Dataset V42.4 (2020)

Culture 2	Region	Master ID	Mutation	Country	Location	Death	Reference
Neolithic	Western Europe	I2635	I2a-M423	Great Britain	Scotland, Tulloch of Assery	5471	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I7644	I2a-M423	Spain	Alicante, Alcoi, Llometes	5460	Olalde et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I3133	I2a-M423	Great Britain	Scotland, Argyll and Bute, Oban, Raschoille Cave	5455	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	mid002	I2a-M423	Great Britain	Knowe of Laird	5450	Sanchez-Quinto et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I2637	I2a-M423	Great Britain	Scotland, Holm of Papa Westray North	5375	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I5428	I2a-M423	Portugal	Cova das Lapas	5200	Olalde et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I7554	I2a-M423	Great Britain	Scotland, Orkney, Unstan Chamber Tomb	5185	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Scandinavia	Iai001	I2a-M423	Sweden	Ansarve	5180	Sanchez-Quinto et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I0172	I2a-M423	Germany	Esperstedt	5173	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
Neolithic	Scandinavia	ans008	I2a-M423	Sweden	Ansarve	5135	Sanchez-Quinto et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I2978	I2a-M423	Great Britain	Scotland, Orkney, Isbister	5129	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I2935	I2a-M423	Great Britain	Scotland, Orkney, Isbister	5123	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Copper Age	Western Europe	por002	I2a-M423	Spain	Atapuerca, El Portalón	5091	Valdiosera et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Scandinavia	ans014	I2a-M423	Sweden	Ansarve	5090	Sanchez-Quinto et al. 2019; Reich Dataset V42.4 (2020)

Culture 2	Region	Master ID	Mutation	Country	Location	Death	Reference
Neolithic	Western Europe	I2979	I2a-M423	Great Britain	Scotland, Orkney, Isbister	5087	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Scandinavia	ans017	I2a-M423	Sweden	Ansarve	5080	Sanchez-Quinto et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	CabecoArruda117B	I2a-M423	Portugal	Cabeço da Arruda I	5050	Martiniano et al. 2017; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I2631	I2a-M423	Great Britain	Scotland, Quoyness	4952	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	CovaMoura364	I2a-M423	Portugal	Cova da Moura	4900	Martiniano et al. 2017; Reich Dataset V42.4 (2020)
Mesolithic	Scandinavia	Ajvide58	I2a-M423	Sweden	Gotland, Stora Karlso	4700	Skoglund et al. 2014; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I11592	I2a-M423	Portugal	Torres Vedra, Bolores	4650	Olalde et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Scandinavia	ans016	I2a-M423	Sweden	Ansarve	4646	Sanchez-Quinto et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I8364	I2a-M423	Spain	Córdoba, Lucena, Sima del Ángel	4588	Olalde et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I2630	I2a-M423	Great Britain	Scotland, Orkney, Isbister	4472	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I2932	I2a-M423	Great Britain	Scotland, Orkney, Isbister	4409	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	MX188	I2a-M423	Switzerland	Spreitenbach CWC (CH)	4399	Furtwangler et al. 2020
Neolithic	Western Europe	MX191	I2a-M423	Switzerland	Spreitenbach CWC (CH)	4190	Furtwangler et al. 2020
Neolithic	Mediterranean	SID006	I2a-M423	Italy	Sardinia, S'isteridolzu	4117	Marcus et al. 2020
Neolithic	Western Europe	MX195	I2a-M423	Switzerland	Spreitenbach CWC (CH)	4050	Furtwangler et al. 2020

Culture 2	Region	Master ID	Mutation	Country	Location	Death	Reference
Copper Age	Western Europe	I6608	I2a-M423	Spain	Madrid, San Fernando de Henares, Camino de las Yeseras	3940	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Bronze Age	Mediterranean	SUC006	I2a-M423	Italy	Sardinia, Su Crucifissu Mannu, t.16	3909	Marcus et al. 2020
Bronze Age	Mediterranean	SUC007	I2a-M423	Italy	Sardinia, Su Crucifissu Mannu, t.16	3880	Marcus et al. 2020
Bronze Age	Western Europe	I8048	I2a-M423	Spain	Granada, Arenas del Rey	3850	Olalde et al. 2019; Reich Dataset V42.4 (2020)
Bronze Age	Mediterranean	ISC001	I2a-M423	Italy	Sardinia, S'Ischia 'e sas Piras	3794	Marcus et al. 2020
Bronze Age	Mediterranean	SUC005	I2a-M423	Italy	Sardinia, Su Crucifissu Mannu, t.16	3774	Marcus et al. 2020
Bronze Age	Mediterranean	SUC003	I2a-M423	Italy	Sardinia, Su Crucifissu Mannu, t.16	3643	Marcus et al. 2020
Bronze Age	Mediterranean	SUC009	I2a-M423	Italy	Sardinia, Su Crucifissu Mannu, t.22	3421	Marcus et al. 2020
Bronze Age	Mediterranean	ORC004	I2a-M423	Italy	Sardinia, S'Orcu 'e Tueri	3020	Marcus et al. 2020

Supplementary Table 10.12. Ancient I2a-M436 Remains.

Culture 2	Region	Master ID	Mutation	Country	Location	Death	Reference
Mesolithic	Mediterranean	R11	I2a-M436	Italy	Grotta Continenza	11908	Antonio et al. 2019; Reich Dataset V42.4 (2020)
Mesolithic	Western Europe	I6754	I2a-M436	Great Britain	Wales, Pembrokeshire, Caldey Island, Ogof-Yr-Ychen	9588	Brace et al. 2019; Reich Dataset V42.4 (2020)
Mesolithic	Western Europe	PER3123	I2a-M436	France	Agris	9057	Brunel et al. 2020
Mesolithic	Eastern Europe	I5401	I2a-M436	Serbia	Hajduka Vodenica	8838	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Mesolithic	Eastern Europe	I4915	I2a-M436	Serbia	Hajduka Vodenica	8115	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	I2529	I2a-M436	Bulgaria	Yabalkovo	7601	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	I4971	I2a-M436	Hungary	Tiszaszolos- Domaháza	7592	Lipson et al. 2017; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	I5870	I2a-M436	Ukraine	Volniensky, Vilnianska	7360	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	I5888	I2a-M436	Ukraine	Dereivka I	7100	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	LBR005	I2a-M436	France	Les Bréguières	6979	Rivollat et al. 2020
Neolithic	Western Europe	ROS78	I2a-M436	France	Rosheim	6500	Brunel et al. 2020
Neolithic	Western Europe	Cx161	I2a-M436	France	Cugnaux	6052	Brunel et al. 2020
Neolithic	Western Europe	BERG103-2	I2a-M436	France	Bergheim	5710	Brunel et al. 2020
Neolithic	Western Europe	I6750	I2a-M436	Great Britain	England, Wiltshire, Salisbury, Fussell's Lodge	5658	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	PSS1	I2a-M436	France	Pont-sur-Seine	5373	Brunel et al. 2020

Culture 2	Region	Master ID	Mutation	Country	Location	Death	Reference
Neolithic	Western Europe	I0518	I2a-M436	Great Britain	England, Northampton, Banbury Lane	5180	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Bronze Age	Eastern Europe	I2405	I2a-M436	Poland	Kierzkowo	5128	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Copper Age	Western Europe	I3272	I2a-M436	Spain	Basque Country, Alava, La Chabola de la Hechicera	5033	Lipson et al. 2017; Reich Dataset V42.4 (2020)
Copper Age	Western Europe	por004	I2a-M436	Spain	Atapuerca, El Portalolón	4955	Valdiosera et al. 2018; Reich Dataset V42.4 (2020)
Copper Age	Western Europe	I1975	I2a-M436	Spain	Basque Country, Alava, La Chabola de la Hechicera	4942	Lipson et al. 2017; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I10284	I2a-M436	Spain	Barcelona, Cova de la Guineu	4900	Olalde et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I2977	I2a-M436	Great Britain	Scotland, Orkney, Isbister	4836	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I8158	I2a-M436	Spain	Córdoba, Lucena, Sima del Ángel	4650	Olalde et al. 2019; Reich Dataset V42.4 (2020)
Bronze Age	Western Europe	I0826	I2a-M436	Spain	Barcelona, Cerdanyola, Paris Street	4607	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Copper Age	Western Europe	I1274	I2a-M436	Spain	Burgos, Atapuerca, El Mirador Cave	4573	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
Bronze Age	Eastern Europe	Bul6	I2a-M436	Bulgaria	Nova Zagora, Beli Breyag	4450	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Bronze Age	Western Europe	I0114	I2a-M436	Germany	Esperstedt	3995	Mathieson et al. 2015; Reich Dataset V42.4 (2020)

Supplementary Table 10.13. Ancient I2a-M223 Remains.

Culture 2	Region	Master ID	Mutation	Country	Location	Death	Reference
Paleolithic	Western Europe	GoyetQ2	I2a-M223	Belgium	Troisieme caverne of Goyet cave	15006	Villalba-Mouco et al. 2019; Fu et al. 2016
Mesolithic	Mediterranean	R7	I2a-M223	Italy	Grotta Continenza	10682	Antonio et al. 2019; Reich Dataset V42.4 (2020)
Mesolithic	Western Europe	I6767	I2a-M223	Great Britain	England, Somerset, Cheddar, Gough's Cave	10300	Brace et al. 2019; Reich Dataset V42.4 (2020)
Mesolithic	Western Europe	Falkenstein	I2a-M223	Germany	Swabian Jura, Baden-Wurttemberg, Falkenstein-Höhle	9200	Fu et al. 2016; Reich Dataset V42.4 (2020)
Mesolithic	Mediterranean	R15	I2a-M223	Italy	Grotta Continenza	9125	Antonio et al. 2019; Reich Dataset V42.4 (2020)
Mesolithic	Eastern Europe	I4881	I2a-M223	Serbia	Vlasac	8363	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Mesolithic	Eastern Europe	I5402	I2a-M223	Serbia	Hajduka Vodenica	8156	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Mesolithic	Eastern Europe	I4914	I2a-M223	Serbia	Hajduka Vodenica	8123	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Mesolithic	Eastern Europe	I4882	I2a-M223	Serbia	Vlasac	8000	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Mesolithic	Baltic	I4596	I2a-M223	Latvia	Zvejnieki	7976	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Mesolithic	Eastern Europe	I4880	I2a-M223	Serbia	Vlasac	7813	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Mesolithic	Eastern Europe	I4878	I2a-M223	Serbia	Vlasac	7803	Mathieson et al. 2018; Reich Dataset V42.4 (2020)

Culture 2	Region	Master ID	Mutation	Country	Location	Death	Reference
Mesolithic	Baltic	I4551	I2a-M223	Latvia	Zvejnieki	7671	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	I3715	I2a-M223	Ukraine	Volniensky, Vilnianka	7529	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Mesolithic	Baltic	I4553	I2a-M223	Latvia	Zvejnieki	7379	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	I1738	I2a-M223	Ukraine	Vovnigi	7350	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	I3717	I2a-M223	Ukraine	Dereivka I	7289	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	I1378	I2a-M223	Ukraine	Vovnigi	7250	Jones et al. 2015; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	I1378	I2a-M223	Ukraine	Vovnigi	7250	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	I5875	I2a-M223	Ukraine	Dereivka I	7126	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	I3714	I2a-M223	Ukraine	Volniensky, Vilnianka	7100	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	I2375	I2a-M223	Hungary	Tiszadob Ó-Kenéz	7050	Lipson et al. 2017; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	I4188	I2a-M223	Hungary	Polgár, Piócás	7050	Lipson et al. 2017; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	I2377	I2a-M223	Hungary	Tiszadob Ó-Kenéz	7025	Lipson et al. 2017; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	I2379	I2a-M223	Hungary	Hejkört, Lidl logisztikai központ	7011	Lipson et al. 2017; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	I3719	I2a-M223	Ukraine	Dereivka I	6824	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	LBR002	I2a-M223	France	Les Bréguières	6820	Rivollat et al. 2020

Culture 2	Region	Master ID	Mutation	Country	Location	Death	Reference
Mesolithic	Baltic	I4441	I2a-M223	Latvia	Zvejnieki	6725	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	LBR001	I2a-M223	France	Les Bréguières	6713	Rivollat et al. 2020
Copper Age	Eastern Europe	I2793	I2a-M223	Hungary	Törökszentmiklos, Road 4, site 3	6301	Lipson et al. 2017; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	CRE29	I2a-M223	France	Béziers	6071	Brunel et al. 2020
Neolithic	Western Europe	BLP10	I2a-M223	France	Beaurieux	5980	Brunel et al. 2020
Neolithic	Mediterranean	I15946	I2a-M223	Italy	Sardinia, Anghelu Rujù	5956	Fernandes et al. 2020
Neolithic	Western Europe	I2657	I2a-M223	Great Britain	Scotland, Macarthur Cave	5816	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I6760	I2a-M223	Great Britain	England, Gloucestershire, Hampnett, Burn Ground	5770	Brace et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I0406	I2a-M223	Spain	La Mina	5700	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I6762	I2a-M223	Great Britain	England, Gloucestershire, Chipping Norton, Upper Swell	5700	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I6750	I2a-M223	Great Britain	England, Wiltshire, Salisbury, Fussell's Lodge	5658	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I6750	I2a-M223	Great Britain	England, Wiltshire, Salisbury, Fussell's Lodge	5658	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	c40331	I2a-M223	Spain	Andalusia, Cueva de los Cuarenta	5650	Valdiosera et al. 2018; Reich Dataset V42.4 (2020)

Culture 2	Region	Master ID	Mutation	Country	Location	Death	Reference
Neolithic	Western Europe	I2691	I2a-M223	Great Britain	Scotland, Distillery Cave	5620	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I3041	I2a-M223	Great Britain	Scotland, Argyll and Bute, Oban, Raschoille Cave	5600	Brace et al. 2019; Reich Dataset V42.4 (2020)
Copper Age	Western Europe	I5359	I2a-M223	Great Britain	Wales, Glamorgan, Tinkinswood	5600	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I3068	I2a-M223	Great Britain	England, Derbyshire, Brassington, Carsington Pasture Cave	5557	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I6747	I2a-M223	Great Britain	England, Derbyshire, Brassington, Carsington Pasture Cave	5539	Brace et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I3039	I2a-M223	Great Britain	England, Sussex, Brighton, Whitehawk	5525	Brace et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I3040	I2a-M223	Great Britain	England, Sussex, Brighton, Whitehawk	5525	Brace et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I6757	I2a-M223	Great Britain	England, North Yorkshire, Attermire Scar, Jubilee Cave	5463	Brace et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I3135	I2a-M223	Great Britain	Scotland, Argyll and Bute, Oban, Raschoille Cave	5463	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I3134	I2a-M223	Great Britain	Scotland, Argyll and Bute, Oban, Raschoille Cave	5456	Olalde et al. 2018; Reich Dataset V42.4 (2020)

Culture 2	Region	Master ID	Mutation	Country	Location	Death	Reference
Neolithic	Eastern Europe	I7272	I2a-M223	Czech Republic	Brandýsek	5454	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I3041	I2a-M223	Great Britain	Scotland, Argyll and Bute, Oban, Raschoille Cave	5440	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I2660	I2a-M223	Great Britain	Scotland, Distillery Cave	5383	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I2650	I2a-M223	Great Britain	Scotland, Holm of Papa Westray North	5380	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I6753	I2a-M223	Great Britain	England, Kent, Trottiscliffe, Coldrum	5305	Brace et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I6755	I2a-M223	Great Britain	England, North Yorkshire, Ha Cave, Giggleswick Scar	5264	Brace et al. 2019; Reich Dataset V42.4 (2020)
Bronze Age	Eastern Europe	I2176	I2a-M223	Bulgaria	Smyadovo	5132	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Bronze Age	Eastern Europe	I2175	I2a-M223	Bulgaria	Smyadovo	5122	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I2606	I2a-M223	Great Britain	England, Eton Rowing Course	5065	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Copper Age	Western Europe	I11249	I2a-M223	Spain	Basque Country	5050	Olalde et al. 2019; Reich Dataset V42.4 (2020)
Copper Age	Western Europe	I7603	I2a-M223	Spain	Mandubi Zelaia	5050	Olalde et al. 2019; Reich Dataset V42.4 (2020)
Copper Age	Western Europe	I7602	I2a-M223	Spain	Mandubi Zelaia	5050	Olalde et al. 2019; Reich Dataset V42.4 (2020)
Bronze Age	Eastern Europe	I2441	I2a-M223	Poland	Kierzkowo	5050	Mathieson et al. 2018; Reich Dataset V42.4 (2020)

Culture 2	Region	Master ID	Mutation	Country	Location	Death	Reference
Copper Age	Western Europe	I7605	I2a-M223	Spain	Mandubi Zelaia	5050	Olalde et al. 2019; Reich Dataset V42.4 (2020)
Copper Age	Western Europe	I11248	I2a-M223	Spain	Basque Country	5050	Olalde et al. 2019; Reich Dataset V42.4 (2020)
Copper Age	Western Europe	I7606	I2a-M223	Spain	Mandubi Zelaia	5050	Olalde et al. 2019; Reich Dataset V42.4 (2020)
Copper Age	Western Europe	I7604	I2a-M223	Spain	Mandubi Zelaia	5050	Olalde et al. 2019; Reich Dataset V42.4 (2020)
Copper Age	Western Europe	I3269	I2a-M223	Spain	Basque Country, Alava, Las Yurdinas II	5000	Lipson et al. 2017; Reich Dataset V42.4 (2020)
Copper Age	Western Europe	I4565	I2a-M223	Spain	Tarragona, Galls Carboners	4915	Olalde et al. 2019; Reich Dataset V42.4 (2020)
Bronze Age	Eastern Europe	I2165	I2a-M223	Bulgaria	Merichleri, Kairyaka necropolis	4908	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Yamnaya	Eastern Europe	Bul4	I2a-M223	Bulgaria	Nova Zagora, Mednikarovo	4906	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I10287	I2a-M223	Spain	Barcelona, Cova de la Guineu	4900	Olalde et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I2933	I2a-M223	Great Britain	Scotland, Orkney, Isbister	4898	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Copper Age	Western Europe	atp12-1420	I2a-M223	Spain	Atapuerca, El Portalón	4896	Valdiosera et al. 2018; Reich Dataset V42.4 (2020)
Copper Age	Western Europe	ATP17	I2a-M223	Spain	El Portalon Cave, Sierra de Atapuerca	4889	Gunther et al. 2015; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I5387	I2a-M223	Great Britain	England, Wiltshire, Avebury, West Kennet	4850	Brace et al. 2019; Reich Dataset V42.4 (2020)

Culture 2	Region	Master ID	Mutation	Country	Location	Death	Reference
Copper Age	Western Europe	I1845	I2a-M223	Spain	Basque Country, Alava, Alto de la Huesera	4800	Olalde et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Western Europe	I7642	I2a-M223	Spain	Alicante, Alcoi, Llometes	4784	Olalde et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	RISE1171	I2a-M223	Poland	Koszyce, site 3	4768	Schroeder et al. 2019; Reich Dataset V42.4 (2020)
Copper Age	Western Europe	I2473	I2a-M223	Spain	Basque Country, Alava, El Sotillo	4765	Olalde et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	ILK001	I2a-M223	Ukraine	Ilatka	4753	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	RISE1241	I2a-M223	Poland	Sandomierz	4753	Schroeder et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	RISE1162	I2a-M223	Poland	Koszyce, site 3	4747	Schroeder et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	RISE1165	I2a-M223	Poland	Koszyce, site 3	4743	Schroeder et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	ILK002	I2a-M223	Ukraine	Ilatka	4742	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	RISE1169	I2a-M223	Poland	Koszyce, site 3	4741	Schroeder et al. 2019; Reich Dataset V42.4 (2020)
Copper Age	Western Europe	I0581	I2a-M223	Spain	Burgos, Atapuerca, El Mirador Cave	4740	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	RISE1163	I2a-M223	Poland	Koszyce, site 3	4735	Schroeder et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	RISE1252	I2a-M223	Poland	Mierzanowice	4725	Schroeder et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	RISE1250	I2a-M223	Poland	Sandomierz	4725	Schroeder et al. 2019; Reich Dataset V42.4 (2020)

Culture 2	Region	Master ID	Mutation	Country	Location	Death	Reference
Neolithic	Eastern Europe	RISE1254	I2a-M223	Poland	ZÅ,ota-Wilczyce	4725	Schroeder et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	RISE1160	I2a-M223	Poland	Koszyce, site 3	4714	Schroeder et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	RISE1168	I2a-M223	Poland	Koszyce, site 3	4676	Schroeder et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	I2403	I2a-M223	Poland	Kierzkowo	4673	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	RISE1173	I2a-M223	Poland	Koszyce, site 3	4634	Schroeder et al. 2019; Reich Dataset V42.4 (2020)
Copper Age	Western Europe	I5838	I2a-M223	Spain	Burgos, Atapuerca, El Mirador Cave	4573	Lipson et al. 2017; Reich Dataset V42.4 (2020)
Copper Age	Western Europe	I6617	I2a-M223	Spain	Madrid, Humanejos	4550	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Yamnaya	Eastern Europe	RISE552	I2a-M223	Russia	Ulan	4446	Allentoft et al. 2015; Reich Dataset V42.4 (2020)
Copper Age	Western Europe	I1976	I2a-M223	Spain	Basque Country, Alava, El Sotillo	4409	Olalde et al. 2019; Reich Dataset V42.4 (2020)
Copper Age	Western Europe	I1277	I2a-M223	Spain	Burgos, Atapuerca, El Mirador Cave	4407	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	N47	I2a-M223	Poland	Pikutkowo	4405	Fernandes et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	Eastern Europe	N49	I2a-M223	Poland	Pikutkowo	4405	Fernandes et al. 2018; Reich Dataset V42.4 (2020)
Copper Age	Western Europe	I2467	I2a-M223	Spain	Basque Country, Alava, El Sotillo	4297	Lipson et al. 2017; Reich Dataset V42.4 (2020)
Bronze Age	Western Europe	I0460	I2a-M223	Spain	Burgos, Arroyal I	4285	Olalde et al. 2018; Reich Dataset V42.4 (2020)

Culture 2	Region	Master ID	Mutation	Country	Location	Death	Reference
Bronze Age	Eastern Europe	I2786	I2a-M223	Hungary	Szigetszentmiklós, Felső Ūrge-hegyi dűlű	4283	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Bronze Age	Western Europe	I0458	I2a-M223	Spain	Burgos, Arroyal I	4282	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Bronze Age	Western Europe	I6587	I2a-M223	Spain	Madrid, Humanejos	4200	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Copper Age	Mediterranean	R26	I2a-M223	Italy	Su Crocefissu	4150	Antonio et al. 2019; Reich Dataset V42.4 (2020)
Copper Age	Mediterranean	R27	I2a-M223	Italy	Su Crocefissu	4150	Antonio et al. 2019; Reich Dataset V42.4 (2020)
Copper Age	Mediterranean	I14676	I2a-M223	Italy	Sardinia, Serra Crabiles	4066	Fernandes et al. 2020
Bronze Age	Western Europe	I1767	I2a-M223	Great Britain	England, County Durham, Stockton-on-Tees, Windmill Fields	4035	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Copper Age	Mediterranean	I14675	I2a-M223	Italy	Sardinia, Serra Crabiles	4009	Fernandes et al. 2020
Copper Age	Western Europe	I7638	I2a-M223	Great Britain	England, Oxfordshire, Radley, Barrow Hills	3980	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Bronze Age	Eastern Europe	RISE247	I2a-M223	Hungary	Százhalombatta-Földvár	3629	Allentoft et al. 2015; Reich Dataset V42.4 (2020)
Bronze Age	Western Europe	I2655	I2a-M223	Great Britain	Scotland, Pabbay Mor	3308	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Iron Age	South Asia	I12149	I2a-M223	Pakistan	Swat Valley, Katelai	2850	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
Iron Age	South Asia	I12471	I2a-M223	Pakistan	Swat Valley, Katelai	2850	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)

Supplementary Table 10.14. Scandinavia and Ancient I-M170 Mutations.

Culture 2	Master ID	Mutation	Country	Location	Death	Reference
Mesolithic	Hum2	I2-M438	Norway	Hummervikholmen	9364	Gunther et al. 2018; Reich Dataset V42.4 (2020)
Mesolithic	SF11	I-M170	Sweden	Stora Förvar	8892	Gunther et al. 2018; Reich Dataset V42.4 (2020)
Mesolithic	SBJ	I2-M438	Sweden	Stora Bjers	8771	Gunther et al. 2018; Reich Dataset V42.4 (2020)
Mesolithic	I0013	I2a-M423	Sweden	Motala, Kanaljorden	7751	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
Mesolithic	I0015	I2a-P37.2	Sweden	Motala, Kanaljorden	7747	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
Mesolithic	I0017	I2a-M423	Sweden	Motala, Kanaljorden	7626	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
Mesolithic	I0012	I2c-L596	Sweden	Motala, Kanaljorden	7595	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
Mesolithic	StoraForvar11	I-M170	Sweden	Gotland, Stora Karlso	7325	Skoglund et al. 2014; Reich Dataset V42.4 (2020)
Neolithic	Steigen	I2a-M423	Norway	Steigen	5857	Gunther et al. 2018; Reich Dataset V42.4 (2020)
Neolithic	lai001	I2a-M423	Sweden	Ansarve	5180	Sanchez-Quinto et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	ans008	I2a-M423	Sweden	Ansarve	5135	Sanchez-Quinto et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	ans014	I2a-M423	Sweden	Ansarve	5090	Sanchez-Quinto et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	ans017	I2a-M423	Sweden	Ansarve	5080	Sanchez-Quinto et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	Gokhem4	I2-M438	Sweden	Gökhem, Vastergotland	4850	Skoglund et al. 2014; Reich Dataset V42.4 (2020)
Mesolithic	Ajvide58	I2a-M423	Sweden	Gotland, Stora Karlso	4700	Skoglund et al. 2014; Reich Dataset V42.4 (2020)
Mesolithic	Ajvide52	I-M170	Sweden	Gotland, Stora Karlso	4700	Skoglund et al. 2014; Reich Dataset V42.4 (2020)
Neolithic	ans016	I2a-M423	Sweden	Ansarve	4646	Sanchez-Quinto et al. 2019; Reich Dataset V42.4 (2020)
Neolithic	RISE179	I-M170	Sweden	Abekås 1	3843	Allentoft et al. 2015; Reich Dataset V42.4 (2020)
Bronze Age	RISE210	I-M170	Sweden	Ängamöllan	3312	Allentoft et al. 2015; Reich Dataset V42.4 (2020)
Bronze Age	RISE175	I-M170	Sweden	Abekås 1	3214	Allentoft et al. 2015; Reich Dataset V42.4 (2020)

Supplementary Table 10.15. Ancient I2c-L596 Remains.

Region	Culture 2	Master ID	Mutation	Country	Location	Death	Reference
Eastern Europe							
	Neolithic	I2384	I2c-L596	Hungary	Hajdúnánás, Eszlári út	7130	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	Neolithic	I1905	I2c-L596	Hungary	Csabdi, Télizöldes	6664	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	Copper Age	I2789	I2c-L596	Hungary	Abony, Turjános-dülö	5650	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	Copper Age	I2791	I2c-L596	Hungary	Abony, Turjános-dülö	5471	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	Bronze Age	I7199	I2c-L596	Czech Republic	Prague 5, Jinonice, Butovická Street	4041	Olalde et al. 2018; Reich Dataset V42.4 (2020)
	Bronze Age	I4884	I2c-L596	Czech Republic	Prague 8, Kobylisy, Ke Stírce Street	3764	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Middle East							
	Neolithic	I1096	I2c-L596	Turkey	Northwest Anatolia, Marmara, Barcin	8300	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
Scandinavia							
	Mesolithic	I0012	I2c-L596	Sweden	Motala, Kanaljorden	7595	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
Western Europe							
	Neolithic	TGM009	I2c-L596	Germany	Tangermünde	5109	Rivollat et al. 2020
	Neolithic	I0116	I2c-L596	Germany	Esperstedt	3987	Mathieson et al. 2015; Reich Dataset V42.4 (2020)

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Supplementary Tables for Chapter Eleven and Haplogroup J-M304



Supplementary Table 11.1. Contemporary Distribution of Haplogroup J-M304.

Region	Language Group	Language Family	Population	Location	Sample Size	J-M304	Reference
Caucasus							
	Armenian						
		Indo-European	Armenians Erzurum	Georgia	99	41.0%	Balanovsky et al. 2017
		Indo-European	Armenians Krasnodar	Russia	117	40.0%	Balanovsky et al. 2017
		Indo-European	Ararat Valley-Armenian	Armenia	110	38.2%	Herrera et al. 2012
		Indo-European	Armenians (Eastern)	Armenia	416	37.8%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Gardman)	Azerbaijan	96	36.5%	Herrera et al. 2012
		Indo-European	Armenians Hemshin	Russia	89	34.0%	Balanovsky et al. 2017
		Indo-European	Armenians Don	Russia	92	31.0%	Balanovsky et al. 2017
		Indo-European	Armenians Adigei	Russia	49	31.0%	Balanovsky et al. 2017
	Iranian						
		Indo-European	Talysh	Azerbaijan	40	23.0%	Nasidze et al. 2009
		Indo-European	Tats	Daghestan	24	21.0%	Karafet et al. 2016
	Kartvelian						
		Kartvelian	Georgians	Georgia	66	36.3%	Battaglia et al. 2009
	North Caucasian						
		North Caucasian	Tsez	Daghestan	24	100.0%	Karafet et al. 2016
		North Caucasian	Kubachians	Daghestan	65	99.0%	Balanovsky et al. 2011
		North Caucasian	Ingush	Russia	143	91.6%	Balanovsky et al. 2011
		North Caucasian	Akhvakhs	Daghestan	23	91.0%	Karafet et al. 2016

Region	Language Group	Language Family	Population	Location	Sample Size	J-M304	Reference
		North Caucasian	Chechens (Chechnya)	Russia	118	83.0%	Balanovsky et al. 2011
		North Caucasian	Avar	Daghestan	33	82.0%	Karafet et al. 2016
		North Caucasian	Dargins	Daghestan	101	71.0%	Balanovsky et al. 2011
		North Caucasian	Avar	Daghestan	115	65.0%	Balanovsky et al. 2011
		North Caucasian	Lezgians	Daghestan	81	46.9%	Balanovsky et al. 2011
		North Caucasian	Laks	Daghestan	22	45.0%	Karafet et al. 2016
		North Caucasian	Abkhaz	Russia	58	13.8%	Balanovsky et al. 2011
		North Caucasian	Shapsugs	Russia	100	6.0%	Balanovsky et al. 2011
	Turkic						
		Turkic	Nogais	Daghestan	22	70.0%	Karafet et al. 2016
		Turkic	Kумыks	Daghestan	21	39.0%	Karafet et al. 2016
		Turkic	Balkarian	Caucasus	38	23.7%	Battaglia et al. 2009
Central Asia							
	Chinese						
		Sino-Tibetan	Dungan	Uzbekistan	31	6.5%	Zhabagin et al. 2017
	Iranian						
		Indo-European	Hazara	Afghanistan	60	26.7%	Haber et al. 2012
		Indo-European	Tajiks	Afghanistan	56	17.8%	Haber et al. 2012
		Indo-European	Tajiks	Afghanistan	142	17.6%	Di Cristofaro et al. 2013
		Indo-European	Hazara	Afghanistan	77	13.0%	Di Cristofaro et al. 2013
		Indo-European	Pashtuns (Pathans)	Afghanistan	87	6.9%	Di Cristofaro et al. 2013
		Indo-European	Pashtuns (Pathans)	Afghanistan	190	6.2%	Lacau et al. 2012
		Indo-European	Pashtuns (Pathans)	Afghanistan	49	2.0%	Haber et al. 2012
	Turkic						

Region	Language Group	Language Family	Population	Location	Sample Size	J-M304	Reference
		Turkic	Uzbek	Uzbekistan	52	20.2%	Zhabagin et al. 2017
		Turkic	Uzbek	Uzbekistan	67	19.0%	Zhabagin et al. 2017
		Turkic	Uzbek	Uzbekistan	98	18.3%	Zhabagin et al. 2017
		Turkic	Uzbeks	Afghanistan	127	17.3%	Di Cristofaro et al. 2013
		Turkic	Turkmen	Afghanistan	74	16.2%	Di Cristofaro et al. 2013
		Turkic	Kazakh	Kazakhstan	94	8.6%	Zhabagin et al. 2017
		Turkic	Karakalpaks	Uzbekistan	100	8.0%	Zhabagin et al. 2017
		Turkic	Kazakh	Kazakhstan	81	7.4%	Zhabagin et al. 2017
		Turkic	Kyrgyz	Kyrgyzstan	132	5.3%	Di Cristofaro et al. 2013
		Turkic	Kazakh	Kazakhstan	55	5.1%	Zhabagin et al. 2017
		Turkic	Turkmen	Uzbekistan	83	2.4%	Zhabagin et al. 2017
		Turkic	Kazakh	Kazakhstan	119	1.8%	Zhabagin et al. 2017
East Asia							
	Iranian						
		Indo-European	Tajiks	Northwestern China	31	16.1%	Shou et al. 2010
	Turkic						
		Turkic	Uzbek	Northwestern China	23	34.8%	Shou et al. 2010
		Turkic	Uygurs	Northwestern China	50	34.0%	Shou et al. 2010
		Turkic	Keriyans	Xinjiang, China	70	18.0%	Chen et al. 2014
Eastern Europe							
	Albanian						
		Indo-European	Albanians	Macedonia	64	10.4%	Battaglia et al. 2009
	Greek						

Region	Language Group	Language Family	Population	Location	Sample Size	J-M304	Reference
	Italic	Indo-European	Greeks	Macedonia	57	15.9%	Battaglia et al. 2009
		Indo-European	Moldavians	Moldova	125	8.0%	Varzari et al. 2013.
	Slavic	Indo-European	Bulgarians	Bulgaria	808	13.9%	Karachanak et al. 2013
		Indo-European	Bosniacs	Bosnia-Herzegovina	84	12.0%	Battaglia et al. 2009
		Indo-European	Serbs	Bosnia-Herzegovina	81	9.8%	Battaglia et al. 2009
		Indo-European	Croats	Croatia	720	9.2%	Sarac et al. 2016
		Indo-European	Croats (Osijek)	Croatia	29	7.9%	Battaglia et al. 2009
		Indo-European	Serb	Serbia	103	7.9%	Regueiro et al. 2012
		Indo-European	Ukrainians	Ukraine	92	6.6%	Battaglia et al. 2009
		Indo-European	Croats	Bosnia-Herzegovina	90	5.6%	Battaglia et al. 2009
		Indo-European	Czech	Czech Republic	75	5.3%	Battaglia et al. 2009
		Indo-European	Slovenians	Slovenia	75	3.9%	Battaglia et al. 2009
		Indo-European	Slovaks	Slovakia	164	3.7%	Rebala et al. 2013
		Indo-European	Croats	Croatia	89	3.3%	Battaglia et al. 2009
		Indo-European	Kurpie	Poland	158	2.5%	Rebala et al. 2013
		Indo-European	Poles	Poland	913	2.5%	Kayser et al. 2005
		Indo-European	Kashubians	Poland	204	2.5%	Rebala et al. 2013
		Indo-European	Poles	Poland	99	2.0%	Battaglia et al. 2009
		Uralic	Indo-European	Kociewie	Poland	158	1.9%
	Uralic		Hungarians	Hungary	53	1.9%	Battaglia et al. 2009

Region	Language Group	Language Family	Population	Location	Sample Size	J-M304	Reference
Mediterranean							
	Albanian						
		Indo-European	Gheg	Albania	119	30.9%	Sarno et al. 2016, Ferri et al. 2010
		Indo-European	Albanians	Albania	55	23.5%	Battaglia et al. 2009
		Indo-European	Albanians (Tosk)	Albania	104	21.2%	Sarno et al. 2016, Ferri et al. 2010
	Greek						
		Indo-European	Greek Cypriots	Cyprus	629	39.9%	Voskarides et al. 2016
		Indo-European	Cretans	Crete	168	37.5%	Martinez et al. 2007
		Indo-European	Cretans	Crete	193	35.8%	King et al. 2008
		Indo-European	Greeks	Smyrna, Greece	58	27.0%	King et al. 2011
		Indo-European	Greeks (Sesklo/Dimini)	Greece	57	23.0%	King et al. 2011
		Indo-European	Greeks	Greece	92	22.9%	Battaglia et al. 2009
		Indo-European	Greeks	Phokaia, Greece	31	22.0%	King et al. 2011
		Indo-European	Greeks (Nea Nikomedeia)	Greece	57	22.0%	King et al. 2011
		Indo-European	Greeks	Lerna/Franchthi Cave, Greece	57	18.0%	King et al. 2011
	Italic						
		Indo-European	Sardianians	Italy	236	29.7%	Di Gaetano et al. 2009
		Indo-European	Italians	Italy	884	17.2%	Boattini et al. 2013
		Indo-European	Italians	North Eastern Italy	67	13.5%	Battaglia et al. 2009

Region	Language Group	Language Family	Population	Location	Sample Size	J-M304	Reference
Middle East							
	Armenian						
		Indo-European	Armenians (Lake Van)	Turkey	103	42.7%	Herrera et al. 2012
		Indo-European	Armenians (Van)	Turkey	103	42.7%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Central)	Turkey	200	42.5%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Salmast)	Iran	199	41.7%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Western)	Turkey	148	40.0%	Hovhannisyan et al. 2014
		Indo-European	Armenians	Iran	34	32.3%	Grugni et al. 2012
		Indo-European	Armenians (Sasun)	Turkey	104	26.9%	Herrera et al. 2012
		Indo-European	Armenians (Sasun)	Turkey	104	26.9%	Hovhannisyan et al. 2014
	Iranian						
		Indo-European	Baloch	Iran	24	41.6%	Grugni et al. 2012
		Indo-European	Mazanderani	Iran	72	40.3%	Grugni et al. 2012
		Indo-European	Persians (Fars)	Iran	44	36.3%	Grugni et al. 2012
		Indo-European	Persians (Yazd)	Iran	46	36.2%	Grugni et al. 2012
		Indo-European	Iranians	Iran	150	34.7%	Regueiro et al. 2006; Chiaroni et al. 2010
		Indo-European	Talysh	Iran	50	32.0%	Nasidze et al. 2009
		Indo-European	Gilaki	Iran	64	31.3%	Grugni et al. 2012
		Indo-European	Kurds	Iran	59	28.9%	Grugni et al. 2012
		Indo-European	Lurs	Iran	50	23.6%	Grugni et al. 2012
		Indo-European	Persians (Khorasan)	Iran	59	22.1%	Grugni et al. 2012
		Indo-European	Ossetians (Iron)	Iran	230	19.6%	Balanovsky et al. 2011
		Indo-European	Ossetians (Digor)	Iran	127	15.7%	Balanovsky et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	J-M304	Reference
	Semitic	Indo-European	Kurds	Iraq	93	11.8%	Chiaroni et al. 2010
		Afro-Asiatic	Marsh Arabs	Iraq	143	84.6%	Al-Zahery et al. 2011
		Afro-Asiatic	Yemenite	Yemen	62	82.3%	Cadenas et al. 2008; Chiaroni et al. 2010
		Afro-Asiatic	Bedouin	Kuwait	148	79.7%	Mohammad et al. 2009
		Afro-Asiatic	Yemenite	Yemen	62	72.6%	Regueiro et al. 2006; Chiaroni et al. 2010
		Afro-Asiatic	Bedouin	Negev	28	67.9%	Cann et al. 2002; Chiaroni et al. 2010
		Afro-Asiatic	Qatari	Qatar	72	66.7%	Cadenas et al. 2008
		Afro-Asiatic	Qatarians	Qatar	72	58.3%	Regueiro et al. 2006; Chiaroni et al. 2010
		Afro-Asiatic	Saudis	Saudi Arabia	157	58.0%	Abu-Amero et al. 2009
		Afro-Asiatic	Iraqis	Iraq	154	55.0%	Al-Zahery et al. 2011
		Afro-Asiatic	Jordanians	Jordan	76	48.7%	Chiaroni et al. 2010
		Afro-Asiatic	Omani	Omani	121	48.0%	Luis et al. 2004; Chiaroni et al. 2008
		Afro-Asiatic	Sunni Hama	Syria	36	47.2%	Chiaroni et al. 2010
		Afro-Asiatic	Lebanese	Lebanon	916	46.0%	Zalloua et al. 2008
		Afro-Asiatic	Emirati	United Arab Emirates	164	45.4%	Cadenas et al. 2008; Chiaroni et al. 2010
		Afro-Asiatic	Jordanian	Jordan	146	43.8%	Flores et al. 2005
	Afro-Asiatic	Emirati	UAE	164	34.8%	Regueiro et al. 2006; Chiaroni et al. 2010	
	Afro-Asiatic	Saudis	Saudi Arabia	12	33.3%	Tofanelli et al. 2009; Chiaroni et al. 2010	
	Afro-Asiatic	Palestinians	Palestine	49	32.7%	Chiaroni et al. 2010	

Region	Language Group	Language Family	Population	Location	Sample Size	J-M304	Reference
		Afro-Asiatic	Assyrians	Iran	39	30.8%	Grugni et al. 2012
		Afro-Asiatic	Assyrians	Iraq	28	28.6%	Chiaroni et al. 2010
		Afro-Asiatic	Iraqi	Nassiriya, Iraq	56	26.8%	Tofanelli et al. 2009; Chiaroni et al. 2010
		Afro-Asiatic	Alawites	Syria	45	26.7%	Chiaroni et al. 2010
		Afro-Asiatic	Assyrians	Turkey	25	20.0%	Chiaroni et al. 2010
		Afro-Asiatic	Assyrians	Iran	31	16.1%	Chiaroni et al. 2010
		Afro-Asiatic	Druze	Syria	34	14.7%	Chiaroni et al. 2010
		Afro-Asiatic	Druze	Galilee	172	13.4%	Shlush et al. 2008; Chiaroni et al. 2008
		Afro-Asiatic	Assyrians	Northeastern Syria	30	3.3%	Chiaroni et al. 2010
Turkic							
		Turkic	Turks (Northwest Anatolia)	Turkey	52	47.0%	King et al. 2011
		Turkic	Turks	Turkey	33	39.0%	King et al. 2011
		Turkic	Central Anatolia population**	Turkey	90	36.0%	King et al. 2011
		Turkic	Turks	Turkey	523	33.5%	Cinnioglu et al. 2004
		Turkic	Turks (Western Anatolia)	Turkey	30	16.0%	King et al. 2011
		Turkic	Azerbaijani	Iran	63	12.9%	Grugni et al. 2012
		Turkic	Turkmen	Iran	68	12.9%	Grugni et al. 2012
North Africa							
	Berber						
		Afro-Asiatic	Berber	Morocco	103	10.7%	Semino et al. 2004
		Afro-Asiatic	Berber	Morocco	64	6.3%	Semino et al. 2004

Region	Language Group	Language Family	Population	Location	Sample Size	J-M304	Reference
	Cushitic						
		Afro-Asiatic	Beja	Sudan	42	38.1%	Hassan et al. 2008
		Afro-Asiatic	Oromo	Sudan	78	3.8%	Hassan et al. 2008
	Egyptian						
		Afro-Asiatic	Copts	Sudan	33	45.5%	Hassan et al. 2008
	Nilo-Saharan						
		Nilo-Saharan	Nubians	Sudan	39	43.6%	Hassan et al. 2008
		Nilo-Saharan	Masalit	Sudan	32	6.3%	Hassan et al. 2008
		Nilo-Saharan	Fur	Sudan	32	6.3%	Hassan et al. 2008
	Semitic						
		Afro-Asiatic	Libyans	Libya	215	34.0%	Fadhlaoui-Zid et al. 2013
		Afro-Asiatic	Sousse	Tunisia	220	33.6%	Fadhlaoui-Zid et al. 2015
		Afro-Asiatic	Egyptians	Egypt	147	33.1%	Luis et al. 2004; Chiaroni et al. 2008
		Afro-Asiatic	Amhara	Sudan	48	31.2%	Hassan et al. 2008; Chiaroni et al. 2010
		Afro-Asiatic	Moroccans	Morocco	87	28.1%	Fadhlaoui-Zid et al. 2013
		Afro-Asiatic	Arabs	Algeria	102	24.5%	Robino et al. 2008
Northern Eurasia							
	Turkic						
		Turkic	Tatars	Siberia, Russia	776	12.2%	Agdzhoyan et al. 2016
South Asia							
	Austro-Asiatic						
		Austro-Asiatic	Asur	India	40	77.5%	Singh et al. 2016
		Austro-Asiatic	Korku	India	36	16.7%	Singh et al. 2016

Region	Language Group	Language Family	Population	Location	Sample Size	J-M304	Reference
		Austro-Asiatic	Hill Korwa	India	35	2.8%	Singh et al. 2016
	Dravidian						
		Dravidian	Pichakuntla	India	39	59.0%	Singh et al. 2016
		Dravidian	Narikuravar	India	95	57.9%	Singh et al. 2016
		Dravidian	Toda	India	29	55.2%	Singh et al. 2016
		Dravidian	Chenchu	India	38	42.6%	Singh et al. 2016
		Dravidian	Brahui	Pakistan	25	28.0%	Di Cristofaro et al. 2013
		Dravidian	Mondi	India	44	23.9%	Singh et al. 2016
		Dravidian	Badagas	India	56	21.4%	Singh et al. 2016
		Dravidian	Havik	India	15	20.0%	Singh et al. 2016
		Dravidian	Pardhan	Southern India	128	10.2%	Thanseem et al. 2006
		Dravidian	Palliyar	India	21	10.0%	Singh et al. 2016
		Dravidian	Yanadi	India	53	9.5%	Singh et al. 2016
		Dravidian	Lingayat	India	45	8.9%	Singh et al. 2016
		Dravidian	Malayan	India	24	8.3%	Singh et al. 2016
		Dravidian	Gond	India	60	8.3%	Singh et al. 2016
		Dravidian	Vokkaliga	Southwest India	102	8.0%	Chennakrishnaiah et al. 2013
		Dravidian	Lingayat	Southwest India	101	8.0%	Chennakrishnaiah et al. 2013
		Dravidian	Vysya	India	40	7.5%	Singh et al. 2016
		Dravidian	Naikpod	Southern India	68	7.4%	Thanseem et al. 2006
		Dravidian	Halakki	India	31	6.4%	Singh et al. 2016
		Dravidian	Parayar	India	20	5.0%	Singh et al. 2016
		Dravidian	Naidu	India	20	5.0%	Singh et al. 2016
		Dravidian	Yadava	India	41	4.9%	Singh et al. 2016

Region	Language Group	Language Family	Population	Location	Sample Size	J-M304	Reference
	Indo-Aryan	Dravidian	Reddy	India	49	2.0%	Singh et al. 2016
		Indo-European	Shikari	India	46	40.9%	Singh et al. 2016
		Indo-European	Andh	Southern India	54	35.2%	Thanseem et al. 2006
		Indo-European	Bahelia	India	52	30.8%	Singh et al. 2016
		Indo-European	Sindhi	Pakistan	21	28.6%	Di Cristofaro et al. 2013
		Indo-European	Lohana	India	39	28.2%	Singh et al. 2016
		Indo-European	Kashmiri Pandit	India	23	26.0%	Singh et al. 2016
		Indo-European	Kathodi	India	11	18.2%	Singh et al. 2016
		Indo-European	Kamboj	India	41	17.0%	Singh et al. 2016
		Indo-European	Bengali	West Bengal, India	54	16.7%	Debnath et al. 2011
		Indo-European	Tharu	Uttar Pradesh, India	164	15.9%	Chaubey et al. 2014
		Indo-European	Buxas	India	40	15.0%	Singh et al. 2016
		Indo-European	Tharu	Nepal	202	13.4%	Chaubey et al. 2014; Fornarino et al. 2009
		Indo-European	Chaudhari	Gujarat, India	113	13.3%	Khurana et al. 2014
		Indo-European	Meena	India	40	12.5%	Singh et al. 2016
		Indo-European	Mahadev Koli	India	41	12.2%	Singh et al. 2016
	Indo-European	Dubla	Gujarat, India	42	11.9%	Khurana et al. 2014	
	Indo-European	Bhil	India	17	11.6%	Singh et al. 2016	
	Indo-European	Sonakar	India	39	10.3%	Singh et al. 2016	
	Indo-European	Kalash	Pakistan	20	10.0%	Di Cristofaro et al. 2013	
	Indo-European	Rajbanshi	West Bengal, India	51	9.8%	Debnath et al. 2011	

Region	Language Group	Language Family	Population	Location	Sample Size	J-M304	Reference
		Indo-European	Tadvi	India	42	9.5%	Singh et al. 2016
		Indo-European	Kalash	Pakistan	44	9.1%	Firasat et al. 2007
		Indo-European	Uttar Pradesh	India	91	8.8%	Singh et al. 2016
		Indo-European	Chattisgarh	India	126	7.9%	Singh et al. 2016
		Indo-European	Dhodia	Gujarat, India	63	7.9%	Khurana et al. 2014
		Indo-European	Khatri	India	71	6.5%	Singh et al. 2016
		Indo-European	Kotiya	India	74	5.4%	Singh et al. 2016
		Indo-European	Bisht	India	39	5.1%	Singh et al. 2016
		Indo-European	Vasava	Gujarat, India	24	4.2%	Khurana et al. 2014
		Indo-European	Baiga	India	28	3.6%	Singh et al. 2016
		Indo-European	Baghel	India	36	2.8%	Singh et al. 2016
		Indo-European	Saharia	India	37	2.7%	Singh et al. 2016
		Indo-European	Tharu	India	41	2.4%	Singh et al. 2016
Iranian							
		Indo-European	Banjara (Lambadi)	India	33	18.2%	Singh et al. 2016
		Indo-European	Baloch	Pakistan	25	16.0%	Di Cristofaro et al. 2013
		Indo-European	Pashtuns (Pathans)	Pakistan	270	9.6%	Lee et al. 2014
		Indo-European	Sugali	India	76	5.2%	Singh et al. 2016
		Indo-European	Hazara	Pakistan	25	4.0%	Di Cristofaro et al. 2013
Isolate							
		Isolate	Burusho	Pakistan	97	8.2%	Firasat et al. 2007
		Isolate	Burusho	Pakistan	20	5.0%	Di Cristofaro et al. 2013
Tibeto-Burman							
		Sino-Tibetan	Dhimal	West Bengal, India	36	27.8%	Debnath et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	J-M304	Reference
Sub-Saharan Africa		Sino-Tibetan	Thapa	India	39	15.4%	Singh et al. 2016
	Cushitic						
		Afro-Asiatic	Oromo	Ethiopia	18	33.0%	Haber et al. 2016
		Afro-Asiatic	Somali	Ethiopia	16	6.0%	Haber et al. 2016
Western Europe	Semitic						
		Afro-Asiatic	Amhara	Ethiopia	27	22.0%	Haber et al. 2016
	Germanic						
		Indo-European	Germans	Bavaria, Germany	218	7.3%	Rebala et al. 2013
		Indo-European	Flemish	Flanders	773	5.9%	Larmuseau et al. 2014
		Indo-European	Germans	Germany	1215	4.0%	Kayser et al. 2005
		Indo-European	Germans	Mecklenburg, Germany	131	3.0%	Rebala et al. 2013
		Indo-European	English	England	1165	2.8%	Capelli et al. 2003
	Italic						
	Indo-European	French (Provence)	France	51	12.0%	King et al. 2011	
	Indo-European	Iberians	Iberia	1140	7.7%	Adams et al. 2008	
	Indo-European	French	France	558	6.1%	Ramos-Luis et al. 2014	
	Slavic						
	Indo-European	Sorbs	Germany	123	3.2%	Rebala et al. 2013	

Supplementary Table 11.2. Contemporary Distribution of J1-M267.

Region	Language Group	Language Family	Population	Location	Sample Size	J1-M267	Reference
Caucasus							
	Armenian						
		Indo-European	Armenians Don	Russia	92	15.0%	Balanovsky et al. 2017
		Indo-European	Ararat Valley-Armenian	Armenia	110	14.6%	Herrera et al. 2012
		Indo-European	Armenians (Eastern)	Armenia	416	13.3%	Hovhannisyan et al. 2014
		Indo-European	Armenians Krasnodar	Russia	117	10.0%	Balanovsky et al. 2017
		Indo-European	Armenians Adigei	Russia	49	7.0%	Balanovsky et al. 2017
		Indo-European	Armenians Erzurum	Georgia	99	5.0%	Balanovsky et al. 2017
		Indo-European	Armenians (Gardman)	Azerbaijan	96	4.2%	Herrera et al. 2012
		Indo-European	Armenians Hemshin	Russia	89	2.0%	Balanovsky et al. 2017
	Iranian						
		Indo-European	Tats	Daghestan	24	4.0%	Karafet et al. 2016
	Kartvelian						
		Kartvelian	Georgians	Georgia	66	4.5%	Battaglia et al. 2009
	North Caucasian						
		North Caucasian	Tsez	Daghestan	24	100.0%	Karafet et al. 2016
		North Caucasian	Kubachians	Daghestan	65	99.0%	Balanovsky et al. 2011
		North Caucasian	Akhvakhs	Daghestan	23	91.0%	Karafet et al. 2016
		North Caucasian	Avar	Daghestan	33	73.0%	Karafet et al. 2016
		North Caucasian	Dargins	Daghestan	101	70.0%	Balanovsky et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	J1-M267	Reference
		North Caucasian	Avar	Daghestan	115	59.0%	Balanovsky et al. 2011
		North Caucasian	Laks	Daghestan	22	45.0%	Karafet et al. 2016
		North Caucasian	Lezgians	Daghestan	81	44.4%	Balanovsky et al. 2011
		North Caucasian	Chechens (Chechnya)	Russia	118	25.0%	Balanovsky et al. 2011
		North Caucasian	Ingush	Russia	143	2.8%	Balanovsky et al. 2011
	Turkic						
		Turkic	Nogais	Daghestan	22	41.0%	Karafet et al. 2016
		Turkic	Kumyks	Daghestan	21	24.0%	Karafet et al. 2016
Central Asia							
	Iranian						
		Indo-European	Tajiks	Afghanistan	142	2.8%	Di Cristofaro et al. 2013
		Indo-European	Tajiks	Afghanistan	56	1.8%	Haber et al. 2012
		Indo-European	Pashtuns (Pathans)	Afghanistan	87	1.2%	Di Cristofaro et al. 2013
		Indo-European	Pashtuns (Pathans)	Afghanistan	190	0.5%	Lacau et al. 2012
	Turkic						
		Turkic	Turkmen	Afghanistan	74	8.1%	Di Cristofaro et al. 2013
		Turkic	Uzbek	Uzbekistan	67	7.5%	Zhabagin et al. 2017
		Turkic	Uzbek	Uzbekistan	98	5.1%	Zhabagin et al. 2017
		Turkic	Uzbek	Uzbekistan	52	3.8%	Zhabagin et al. 2017
		Turkic	Kazakh	Kazakhstan	55	3.3%	Zhabagin et al. 2017
		Turkic	Karakalpaks	Uzbekistan	100	3.0%	Zhabagin et al. 2017
		Turkic	Uzbeks	Afghanistan	127	1.6%	Di Cristofaro et al. 2013
		Turkic	Kyrgyz	Kyrgyzstan	132	1.5%	Di Cristofaro et al. 2013
		Turkic	Kazakh	Kazakhstan	81	1.2%	Zhabagin et al. 2017

Region	Language Group	Language Family	Population	Location	Sample Size	J1-M267	Reference	
East Asia	Turkic	Turkic	Turkmen	Uzbekistan	83	1.2%	Zhabagin et al. 2017	
		Turkic	Kazakh	Kazakhstan	119	0.1%	Zhabagin et al. 2017	
		Turkic	Keriyans	Xinjiang, China	70	4.0%	Chen et al. 2014	
Eastern Europe								
Mediterranean	Albanian	Indo-European	Albanians	Macedonia	64	6.3%	Battaglia et al. 2009	
		Greek	Indo-European	Greeks	Macedonia	57	1.8%	Battaglia et al. 2009
			Indo-European	Moldavians	Moldova	125	4.0%	Varzari et al. 2013.
		Slavic	Indo-European	Bulgarians	Bulgaria	808	3.4%	Karachanak et al. 2013
			Indo-European	Bosniacs	Bosnia-Herzegovina	84	2.4%	Battaglia et al. 2009
			Indo-European	Slovaks	Slovakia	164	1.8%	Rebala et al. 2013
			Indo-European	Slovenians	Slovenia	75	1.3%	Battaglia et al. 2009
			Indo-European	Serbs	Bosnia-Herzegovina	81	1.2%	Battaglia et al. 2009
			Indo-European	Serb	Serbia	103	1.0%	Regueiro et al. 2012
			Indo-European	Poles	Poland	99	1.0%	Battaglia et al. 2009
			Indo-European	Croats	Croatia	720	0.5%	Sarac et al. 2016
		Indo-European	Kashubians	Poland	204	0.5%	Rebala et al. 2013	

Region	Language Group	Language Family	Population	Location	Sample Size	J1-M267	Reference
		Indo-European	Albanians	Albania	55	3.6%	Battaglia et al. 2009
		Indo-European	Gheg	Albania	119	2.5%	Sarno et al. 2016, Ferri et al. 2010
		Indo-European	Albanians (Tosk)	Albania	104	1.9%	Sarno et al. 2016, Ferri et al. 2010
Greek							
		Indo-European	Greeks (Nea Nikomedeia)	Greece	57	11.0%	King et al. 2011
		Indo-European	Greeks	Phokaia, Greece	31	10.0%	King et al. 2011
		Indo-European	Cretans	Crete	193	8.3%	King et al. 2008
		Indo-European	Greek Cypriots	Cyprus	629	6.5%	Voskarides et al. 2016
		Indo-European	Greeks	Smyrna, Greece	58	5.0%	King et al. 2011
		Indo-European	Greeks (Sesklo/Dimini)	Greece	57	4.0%	King et al. 2011
		Indo-European	Greeks	Greece	92	2.2%	Battaglia et al. 2009
		Indo-European	Greeks	Lerna/Franchthi Cave, Greece	57	2.0%	King et al. 2011
		Indo-European	Cretans	Crete	168	1.8%	Martinez et al. 2007
Italic							
		Indo-European	Sardianians	Italy	236	3.8%	Di Gaetano et al. 2009
		Indo-European	Italians	Italy	884	3.6%	Boattini et al. 2013
Middle East							
Armenian							
		Indo-European	Armenians (Salmast)	Iran	199	19.6%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Central)	Turkey	200	17.0%	Hovhannisyan et al. 2014

Region	Language Group	Language Family	Population	Location	Sample Size	J1-M267	Reference
		Indo-European	Armenians (Van)	Turkey	103	13.6%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Lake Van)	Turkey	103	13.6%	Herrera et al. 2012
		Indo-European	Armenians (Western)	Turkey	148	12.2%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Sasun)	Turkey	104	9.6%	Herrera et al. 2012
		Indo-European	Armenians (Sasun)	Turkey	104	9.6%	Hovhannisyan et al. 2014
		Indo-European	Armenians	Iran	34	2.9%	Grugni et al. 2012
	Iranian						
		Indo-European	Gilaki	Iran	64	12.5%	Grugni et al. 2012
		Indo-European	Kurds	Iraq	93	11.8%	Chiaroni et al. 2010
		Indo-European	Persians (Fars)	Iran	44	11.4%	Grugni et al. 2012
		Indo-European	Iranians	Iran	150	11.3%	Regueiro et al. 2006; Chiaroni et al. 2010
		Indo-European	Mazanderani	Iran	72	9.8%	Grugni et al. 2012
		Indo-European	Baloch	Iran	24	8.3%	Grugni et al. 2012
		Indo-European	Persians (Khorasan)	Iran	59	6.8%	Grugni et al. 2012
		Indo-European	Persians (Yazd)	Iran	46	6.4%	Grugni et al. 2012
		Indo-European	Lurs	Iran	50	5.9%	Grugni et al. 2012
		Indo-European	Kurds	Iran	59	5.1%	Grugni et al. 2012
		Indo-European	Ossetians (Digor)	Iran	127	3.9%	Balanovsky et al. 2011
		Indo-European	Ossetians (Iron)	Iran	230	1.3%	Balanovsky et al. 2011
	Semitic						
		Afro-Asiatic	Marsh Arabs	Iraq	143	81.1%	Al-Zahery et al. 2011
		Afro-Asiatic	Bedouin	Kuwait	148	79.7%	Mohammad et al. 2009

Region	Language Group	Language Family	Population	Location	Sample Size	J1-M267	Reference
		Afro-Asiatic	Yemenite	Yemen	62	72.6%	Regueiro et al. 2006; Chiaroni et al. 2010
		Afro-Asiatic	Yemenite	Yemen	62	72.6%	Cadenas et al. 2008; Chiaroni et al. 2010
		Afro-Asiatic	Bedouin	Negev	28	67.9%	Cann et al. 2002; Chiaroni et al. 2010
		Afro-Asiatic	Qatari	Qatar	72	58.3%	Cadenas et al. 2008
		Afro-Asiatic	Qatarians	Qatar	72	58.3%	Regueiro et al. 2006; Chiaroni et al. 2010
		Afro-Asiatic	Jordanians	Jordan	76	48.7%	Chiaroni et al. 2010
		Afro-Asiatic	Sunni Hama	Syria	36	47.2%	Chiaroni et al. 2010
		Afro-Asiatic	Saudis	Saudi Arabia	157	40.1%	Abu-Amero et al. 2009
		Afro-Asiatic	Omani	Omani	121	38.0%	Luis et al. 2004; Chiaroni et al. 2008
		Afro-Asiatic	Emirati	United Arab Emirates	164	35.0%	Cadenas et al. 2008; Chiaroni et al. 2010
		Afro-Asiatic	Emirati	UAE	164	34.8%	Regueiro et al. 2006; Chiaroni et al. 2010
		Afro-Asiatic	Saudis	Saudi Arabia	12	33.3%	Tofanelli et al. 2009; Chiaroni et al. 2010
		Afro-Asiatic	Palestinians	Palestine	49	32.7%	Chiaroni et al. 2010
		Afro-Asiatic	Iraqis	Iraq	154	31.0%	Al-Zahery et al. 2011
		Afro-Asiatic	Jordanian	Jordan	146	30.8%	Flores et al. 2005
		Afro-Asiatic	Assyrians	Iraq	28	28.6%	Chiaroni et al. 2010
		Afro-Asiatic	Iraqi	Nassiriya, Iraq	56	26.8%	Tofanelli et al. 2009; Chiaroni et al. 2010
		Afro-Asiatic	Alawites	Syria	45	26.7%	Chiaroni et al. 2010
		Afro-Asiatic	Lebanese	Lebanon	916	20.1%	Zalloua et al. 2008

Region	Language Group	Language Family	Population	Location	Sample Size	J1-M267	Reference
		Afro-Asiatic	Assyrians	Turkey	25	20.0%	Chiaroni et al. 2010
		Afro-Asiatic	Assyrians	Iran	39	17.9%	Grugni et al. 2012
		Afro-Asiatic	Assyrians	Iran	31	16.1%	Chiaroni et al. 2010
		Afro-Asiatic	Druze	Syria	34	14.7%	Chiaroni et al. 2010
		Afro-Asiatic	Druze	Galilee	172	13.4%	Shlush et al. 2008; Chiaroni et al. 2008
		Afro-Asiatic	Assyrians	Northeastern Syria	30	3.3%	Chiaroni et al. 2010
Turkic							
		Turkic	Turks (Northwest Anatolia)	Turkey	52	15.0%	King et al. 2011
		Turkic	Turks	Turkey	33	15.0%	King et al. 2011
		Turkic	Turks	Turkey	523	9.0%	Cinnioglu et al. 2004
		Turkic	Central Anatolia population**	Turkey	90	6.0%	King et al. 2011
		Turkic	Turkmen	Iran	68	5.8%	Grugni et al. 2012
		Turkic	Turks (Western Anatolia)	Turkey	30	3.0%	King et al. 2011
North Africa							
Berber							
		Afro-Asiatic	Berber	Morocco	103	7.8%	Semino et al. 2004
		Afro-Asiatic	Berber	Morocco	64	6.3%	Semino et al. 2004
Cushitic							
		Afro-Asiatic	Beja	Sudan	42	35.7%	Hassan et al. 2008
		Afro-Asiatic	Oromo	Sudan	78	3.8%	Hassan et al. 2008
Egyptian							
		Afro-Asiatic	Copts	Sudan	33	39.4%	Hassan et al. 2008

Region	Language Group	Language Family	Population	Location	Sample Size	J1-M267	Reference
Nilo-Saharan							
		Nilo-Saharan	Nubians	Sudan	39	41.0%	Hassan et al. 2008
		Nilo-Saharan	Masalit	Sudan	32	6.3%	Hassan et al. 2008
		Nilo-Saharan	Fur	Sudan	32	6.3%	Hassan et al. 2008
Semitic							
		Afro-Asiatic	Libyans	Libya	215	30.5%	Fadhlaoui-Zid et al. 2013
		Afro-Asiatic	Amhara	Sudan	48	29.2%	Hassan et al. 2008; Chiaroni et al. 2010
		Afro-Asiatic	Sousse	Tunisia	220	25.0%	Fadhlaoui-Zid et al. 2015
		Afro-Asiatic	Egyptians	Egypt	147	21.1%	Luis et al. 2004; Chiaroni et al. 2008
		Afro-Asiatic	Arabs	Algeria	102	19.6%	Robino et al. 2008
		Afro-Asiatic	Moroccans	Morocco	87	19.5%	Fadhlaoui-Zid et al. 2013
Northern Eurasia							
Turkic							
		Turkic	Tatars	Siberia, Russia	776	1.8%	Agdzhoyan et al. 2016
South Asia							
Dravidian							
		Dravidian	Brahui	Pakistan	25	12.0%	Di Cristofaro et al. 2013
		Dravidian	Chenchu	India	38	2.6%	Singh et al. 2016
Indo-Aryan							
		Indo-European	Kashmiri Pandit	India	23	8.7%	Singh et al. 2016
		Indo-European	Sonakar	India	39	7.7%	Singh et al. 2016
		Indo-European	Mahadev Koli	India	41	2.4%	Singh et al. 2016
Iranian							
		Indo-European	Baloch	Pakistan	25	8.0%	Di Cristofaro et al. 2013

Region	Language Group	Language Family	Population	Location	Sample Size	J1-M267	Reference
Sub-Saharan Africa		Indo-European	Sugali	India	76	1.3%	Singh et al. 2016
	Cushitic						
		Afro-Asiatic	Oromo	Ethiopia	18	33.0%	Haber et al. 2016
Western Europe	Semitic						
		Afro-Asiatic	Amhara	Ethiopia	27	11.0%	Haber et al. 2016
	Germanic						
		Indo-European	Flemish	Flanders	773	1.2%	Larmuseau et al. 2014
		Indo-European	Germans	Mecklenburg, Germany	131	0.7%	Rebala et al. 2013
		Indo-European	Germans	Bavaria, Germany	218	0.5%	Rebala et al. 2013
	Italic						
		Indo-European	French (Provence)	France	51	2.0%	King et al. 2011
	Slavic						
		Indo-European	Sorbs	Germany	123	0.8%	Rebala et al. 2013

Supplementary Table 11.3. Contemporary Distribution of J2a-M410.

Region	Language Group	Language Family	Population	Location	Sample Size	J2a-M410	Reference
Caucasus							
	Armenian						
		Indo-European	Armenians (Gardman)	Azerbaijan	96	29.2%	Herrera et al. 2012
		Indo-European	Armenians Hemshin	Russia	89	28.0%	Balanovsky et al. 2017
		Indo-European	Armenians (Eastern)	Armenia	416	23.1%	Hovhannisyan et al. 2014
		Indo-European	Ararat Valley-Armenian	Armenia	110	22.7%	Herrera et al. 2012
		Indo-European	Armenians Krasnodar	Russia	117	21.0%	Balanovsky et al. 2017
		Indo-European	Armenians Adigei	Russia	49	12.0%	Balanovsky et al. 2017
		Indo-European	Armenians Don	Russia	92	12.0%	Balanovsky et al. 2017
		Indo-European	Armenians Erzurum	Georgia	99	10.0%	Balanovsky et al. 2017
	Iranian						
		Indo-European	Tats	Daghestan	24	17.0%	Karafet et al. 2016
	Kartvelian						
		Kartvelian	Georgians	Georgia	66	31.8%	Battaglia et al. 2009
	North Caucasian						
		North Caucasian	Ingush	Russia	143	87.4%	Balanovsky et al. 2011
		North Caucasian	Chechens (Chechnya)	Russia	118	57.0%	Balanovsky et al. 2011
		North Caucasian	Avar	Daghestan	33	9.0%	Karafet et al. 2016
		North Caucasian	Abkhaz	Russia	58	8.6%	Balanovsky et al. 2011
		North Caucasian	Avar	Daghestan	115	1.0%	Balanovsky et al. 2011
		North Caucasian	Dargins	Daghestan	101	1.0%	Balanovsky et al. 2011
	Turkic						
		Turkic	Nogais	Daghestan	22	29.0%	Karafet et al. 2016

Region	Language Group	Language Family	Population	Location	Sample Size	J2a-M410	Reference
		Turkic	Balkarian	Caucasus	38	21.1%	Battaglia et al. 2009
		Turkic	Kumyks	Daghestan	21	15.0%	Karafet et al. 2016
Central Asia							
	Iranian						
		Indo-European	Hazara	Afghanistan	60	26.7%	Haber et al. 2012
		Indo-European	Tajiks	Afghanistan	56	14.3%	Haber et al. 2012
		Indo-European	Tajiks	Afghanistan	142	14.1%	Di Cristofaro et al. 2013
		Indo-European	Hazara	Afghanistan	77	13.0%	Di Cristofaro et al. 2013
		Indo-European	Pashtuns (Pathans)	Afghanistan	87	5.8%	Di Cristofaro et al. 2013
		Indo-European	Pashtuns (Pathans)	Afghanistan	190	3.1%	Lacau et al. 2012
		Indo-European	Pashtuns (Pathans)	Afghanistan	49	2.0%	Haber et al. 2012
	Turkic						
		Turkic	Uzbeks	Afghanistan	127	14.2%	Di Cristofaro et al. 2013
		Turkic	Turkmen	Afghanistan	74	6.8%	Di Cristofaro et al. 2013
		Turkic	Uzbek	Uzbekistan	98	4.0%	Zhabagin et al. 2017
		Turkic	Kyrgyz	Kyrgyzstan	132	3.0%	Di Cristofaro et al. 2013
		Turkic	Kazakh	Kazakhstan	94	2.2%	Zhabagin et al. 2017
		Turkic	Karakalpaks	Uzbekistan	100	2.0%	Zhabagin et al. 2017
		Turkic	Uzbek	Uzbekistan	52	1.9%	Zhabagin et al. 2017
		Turkic	Uzbek	Uzbekistan	67	1.5%	Zhabagin et al. 2017
East Asia							
	Turkic						
		Turkic	Keriyans	Xinjiang, China	70	14.0%	Chen et al. 2014
Eastern Europe							
	Albanian						

Region	Language Group	Language Family	Population	Location	Sample Size	J2a-M410	Reference
Mediterranean	Greek	Indo-European	Albanians	Macedonia	64	1.6%	Battaglia et al. 2009
		Indo-European	Greeks	Macedonia	57	8.8%	Battaglia et al. 2009
	Italic	Indo-European	Moldavians	Moldova	125	4.0%	Varzari et al. 2013.
		Slavic	Indo-European	Bosniacs	Bosnia-Herzegovina	84	8.4%
	Indo-European		Bulgarians	Bulgaria	808	6.3%	Karachanak et al. 2013
	Indo-European		Croats	Croatia	720	3.7%	Sarac et al. 2016
	Indo-European		Croats (Osijek)	Croatia	29	3.4%	Battaglia et al. 2009
	Indo-European		Ukrainians	Ukraine	92	3.3%	Battaglia et al. 2009
	Indo-European		Serb	Serbia	103	3.0%	Regueiro et al. 2012
	Indo-European		Slovenians	Slovenia	75	2.6%	Battaglia et al. 2009
	Indo-European		Serbs	Bosnia-Herzegovina	81	2.5%	Battaglia et al. 2009
	Indo-European		Kociewie	Poland	158	1.3%	Rebala et al. 2013
	Indo-European		Croats	Bosnia-Herzegovina	90	1.1%	Battaglia et al. 2009
	Indo-European	Croats	Croatia	89	1.1%	Battaglia et al. 2009	
	Indo-European	Kashubians	Poland	204	1.0%	Rebala et al. 2013	
	Indo-European	Kurpie	Poland	158	0.6%	Rebala et al. 2013	
	Indo-European	Slovaks	Slovakia	164	0.6%	Rebala et al. 2013	
	Uralic	Uralic	Hungarians	Hungary	53	1.9%	Battaglia et al. 2009

Region	Language Group	Language Family	Population	Location	Sample Size	J2a-M410	Reference
Albanian							
		Indo-European	Albanians (Tosk)	Albania	104	7.7%	Sarno et al. 2016, Ferri et al. 2010
		Indo-European	Albanians	Albania	55	5.4%	Battaglia et al. 2009
		Indo-European	Gheg	Albania	119	1.7%	Sarno et al. 2016, Ferri et al. 2010
Greek							
		Indo-European	Cretans	Crete	168	33.9%	Martinez et al. 2007
		Indo-European	Cretans	Crete	193	27.5%	King et al. 2008
		Indo-European	Greek Cypriots	Cyprus	629	26.1%	Voskarides et al. 2016
		Indo-European	Greeks	Smyrna, Greece	58	15.0%	King et al. 2011
		Indo-European	Greeks	Lerna/Franchthi Cave, Greece	57	14.0%	King et al. 2011
		Indo-European	Greeks	Greece	92	12.0%	Battaglia et al. 2009
		Indo-European	Greeks (Sesklo/Dimini)	Greece	57	10.0%	King et al. 2011
		Indo-European	Greeks	Phokaia, Greece	31	9.0%	King et al. 2011
		Indo-European	Greeks (Nea Nikomedeia)	Greece	57	4.0%	King et al. 2011
Italic							
		Indo-European	Italians	North Eastern Italy	67	13.5%	Battaglia et al. 2009
		Indo-European	Italians	Italy	884	11.4%	Boattini et al. 2013
		Indo-European	Sardianians	Italy	236	9.7%	Di Gaetano et al. 2009
Middle East							
Armenian							
		Indo-European	Armenians (Van)	Turkey	103	27.2%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Lake Van)	Turkey	103	27.2%	Herrera et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	J2a-M410	Reference
		Indo-European	Armenians (Western)	Turkey	148	27.1%	Hovhannisyan et al. 2014
		Indo-European	Armenians	Iran	34	23.5%	Grugni et al. 2012
		Indo-European	Armenians (Central)	Turkey	200	21.5%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Salmast)	Iran	199	20.1%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Sasun)	Turkey	104	17.3%	Herrera et al. 2012
		Indo-European	Armenians (Sasun)	Turkey	104	17.3%	Hovhannisyan et al. 2014
	Iranian						
		Indo-European	Baloch	Iran	24	33.3%	Grugni et al. 2012
		Indo-European	Mazanderani	Iran	72	26.3%	Grugni et al. 2012
		Indo-European	Persians (Yazd)	Iran	46	25.5%	Grugni et al. 2012
		Indo-European	Persians (Fars)	Iran	44	24.9%	Grugni et al. 2012
		Indo-European	Kurds	Iran	59	23.8%	Grugni et al. 2012
		Indo-European	Iranians	Iran	150	20.0%	Regueiro et al. 2006; Chiaroni et al. 2010
		Indo-European	Gilaki	Iran	64	18.8%	Grugni et al. 2012
		Indo-European	Lurs	Iran	50	17.7%	Grugni et al. 2012
		Indo-European	Persians (Khorasan)	Iran	59	15.3%	Grugni et al. 2012
		Indo-European	Ossetians (Iron)	Iran	230	11.3%	Balanovsky et al. 2011
		Indo-European	Ossetians (Digor)	Iran	127	5.5%	Balanovsky et al. 2011
	Semitic						
		Afro-Asiatic	Lebanese	Lebanon	916	23.1%	Zalloua et al. 2008
		Afro-Asiatic	Iraqis	Iraq	154	20.1%	Al-Zahery et al. 2011
		Afro-Asiatic	Saudis	Saudi Arabia	157	14.7%	Abu-Amero et al. 2009
		Afro-Asiatic	Assyrians	Iran	39	12.9%	Grugni et al. 2012
		Afro-Asiatic	Yemenite	Yemen	62	9.7%	Cadenas et al. 2008; Chiaroni et al. 2010

Region	Language Group	Language Family	Population	Location	Sample Size	J2a-M410	Reference
		Afro-Asiatic	Emirati	United Arab Emirates	164	9.2%	Cadenas et al. 2008; Chiaroni et al. 2010
		Afro-Asiatic	Qatari	Qatar	72	5.6%	Cadenas et al. 2008
		Afro-Asiatic	Jordanian	Jordan	146	4.8%	Flores et al. 2005
		Afro-Asiatic	Omani	Omani	121	1.0%	Luis et al. 2004; Chiaroni et al. 2008
Turkic							
		Turkic	Turks (Northwest Anatolia)	Turkey	52	32.0%	King et al. 2011
		Turkic	Central Anatolia population**	Turkey	90	30.0%	King et al. 2011
		Turkic	Turks	Turkey	33	21.0%	King et al. 2011
		Turkic	Turks (Western Anatolia)	Turkey	30	13.0%	King et al. 2011
		Turkic	Azerbaijani	Iran	63	12.9%	Grugni et al. 2012
		Turkic	Turks	Turkey	523	8.2%	Cinnioglu et al. 2004
		Turkic	Turkmen	Iran	68	7.1%	Grugni et al. 2012
North Africa							
	Semitic						
		Afro-Asiatic	Sousse	Tunisia	220	8.2%	Fadhlaoui-Zid et al. 2015
		Afro-Asiatic	Arabs	Algeria	102	4.9%	Robino et al. 2008
		Afro-Asiatic	Egyptians	Egypt	147	3.0%	Luis et al. 2004; Chiaroni et al. 2008
South Asia							
	Dravidian						
		Dravidian	Toda	India	29	48.3%	Singh et al. 2016
		Dravidian	Chenchu	India	38	22.9%	Singh et al. 2016

Region	Language Group	Language Family	Population	Location	Sample Size	J2a-M410	Reference
		Dravidian	Badagas	India	56	21.4%	Singh et al. 2016
		Dravidian	Havik	India	15	20.0%	Singh et al. 2016
		Dravidian	Brahui	Pakistan	25	16.0%	Di Cristofaro et al. 2013
		Dravidian	Pichakuntla	India	39	10.3%	Singh et al. 2016
		Dravidian	Mondi	India	44	8.7%	Singh et al. 2016
		Dravidian	Gond	India	60	8.3%	Singh et al. 2016
		Dravidian	Malayan	India	24	8.3%	Singh et al. 2016
		Dravidian	Yanadi	India	53	7.6%	Singh et al. 2016
		Dravidian	Lingayat	Southwest India	101	7.0%	Chennakrishnaiah et al. 2013
		Dravidian	Halakki	India	31	6.4%	Singh et al. 2016
		Dravidian	Parayar	India	20	5.0%	Singh et al. 2016
		Dravidian	Palliyar	India	21	5.0%	Singh et al. 2016
		Dravidian	Yadava	India	41	4.9%	Singh et al. 2016
		Dravidian	Vysya	India	40	2.5%	Singh et al. 2016
		Dravidian	Lingayat	India	45	2.2%	Singh et al. 2016
		Dravidian	Vokkaliga	Southwest India	102	1.0%	Chennakrishnaiah et al. 2013
	Indo-Aryan						
		Indo-European	Lohana	India	39	23.1%	Singh et al. 2016
		Indo-European	Sindhi	Pakistan	21	19.1%	Di Cristofaro et al. 2013
		Indo-European	Kathodi	India	11	18.2%	Singh et al. 2016
		Indo-European	Bahelia	India	52	17.3%	Singh et al. 2016
		Indo-European	Kamboj	India	41	17.0%	Singh et al. 2016
		Indo-European	Tharu	Uttar Pradesh, India	164	12.2%	Chaubey et al. 2014

Region	Language Group	Language Family	Population	Location	Sample Size	J2a-M410	Reference
		Indo-European	Mahadev Koli	India	41	9.8%	Singh et al. 2016
		Indo-European	Tharu	Nepal	202	9.4%	Chaubey et al. 2014; Fornarino et al. 2009
		Indo-European	Bengali	West Bengal, India	54	9.3%	Debnath et al. 2011
		Indo-European	Kashmiri Pandit	India	23	8.6%	Singh et al. 2016
		Indo-European	Uttar Pradesh	India	91	7.7%	Singh et al. 2016
		Indo-European	Dubla	Gujarat, India	42	7.1%	Khurana et al. 2014
		Indo-European	Rajbanshi	West Bengal, India	51	5.9%	Debnath et al. 2011
		Indo-European	Bhil	India	17	5.8%	Singh et al. 2016
		Indo-European	Bisht	India	39	5.1%	Singh et al. 2016
		Indo-European	Kalash	Pakistan	20	5.0%	Di Cristofaro et al. 2013
		Indo-European	Chattisgarh	India	126	4.8%	Singh et al. 2016
		Indo-European	Shikari	India	46	4.5%	Singh et al. 2016
		Indo-European	Dhodia	Gujarat, India	63	3.2%	Khurana et al. 2014
		Indo-European	Baghel	India	36	2.8%	Singh et al. 2016
		Indo-European	Kotiya	India	74	2.7%	Singh et al. 2016
		Indo-European	Saharia	India	37	2.7%	Singh et al. 2016
		Indo-European	Khatri	India	71	2.6%	Singh et al. 2016
		Indo-European	Chaudhari	Gujarat, India	113	1.8%	Khurana et al. 2014
	Iranian						
		Indo-European	Banjara (Lambadi)	India	33	18.2%	Singh et al. 2016
		Indo-European	Baloch	Pakistan	25	8.0%	Di Cristofaro et al. 2013
		Indo-European	Hazara	Pakistan	25	4.0%	Di Cristofaro et al. 2013
		Indo-European	Sugali	India	76	1.3%	Singh et al. 2016

Region	Language Group	Language Family	Population	Location	Sample Size	J2a-M410	Reference
Tibeto-Burman							
		Sino-Tibetan	Dhimal	West Bengal, India	36	27.8%	Debnath et al. 2011
		Sino-Tibetan	Thapa	India	39	7.7%	Singh et al. 2016
Sub-Saharan Africa							
	Cushitic						
		Afro-Asiatic	Somali	Ethiopia	16	6.0%	Haber et al. 2016
	Semitic						
		Afro-Asiatic	Amhara	Ethiopia	27	7.0%	Haber et al. 2016
Western Europe							
	Germanic						
		Indo-European	Germans	Bavaria, Germany	218	5.5%	Rebala et al. 2013
		Indo-European	Flemish	Flanders	773	3.9%	Larmuseau et al. 2014
		Indo-European	Germans	Mecklenburg, Germany	131	2.3%	Rebala et al. 2013
	Italic						
		Indo-European	French (Provence)	France	51	10.0%	King et al. 2011
	Slavic						
		Indo-European	Sorbs	Germany	123	1.6%	Rebala et al. 2013

Supplementary Table 11.4. Contemporary Distribution of J2b-M12.

Region	Language Group	Language Family	Population	Location	Sample Size	J2b-M12	Reference
Caucasus							
	Armenian						
		Indo-European	Armenians Erzurum	Georgia	99	5.0%	Balanovsky et al. 2017
		Indo-European	Armenians (Gardman)	Azerbaijan	96	3.1%	Herrera et al. 2012
		Indo-European	Armenians (Eastern)	Armenia	416	1.4%	Hovhannisyan et al. 2014
		Indo-European	Armenians Krasnodar	Russia	117	1.0%	Balanovsky et al. 2017
		Indo-European	Armenians Don	Russia	92	1.0%	Balanovsky et al. 2017
		Indo-European	Armenians Hemshin	Russia	89	1.0%	Balanovsky et al. 2017
		Indo-European	Ararat Valley-Armenian	Armenia	110	0.9%	Herrera et al. 2012
	Turkic						
		Turkic	Balkarian	Caucasus	38	2.6%	Battaglia et al. 2009
Central Asia							
	Iranian						
		Indo-European	Pashtuns (Pathans)	Afghanistan	190	2.6%	Lacau et al. 2012
		Indo-European	Tajiks	Afghanistan	56	1.8%	Haber et al. 2012
		Indo-European	Tajiks	Afghanistan	142	0.7%	Di Cristofaro et al. 2013
	Turkic						

Region	Language Group	Language Family	Population	Location	Sample Size	J2b-M12	Reference
Eastern Europe	Turkic	Turkic	Turkmen	Afghanistan	74	1.4%	Di Cristofaro et al. 2013
		Turkic	Uzbek	Uzbekistan	98	1.0%	Zhabagin et al. 2017
		Turkic	Uzbek	Uzbekistan	52	1.0%	Zhabagin et al. 2017
		Turkic	Uzbeks	Afghanistan	127	0.8%	Di Cristofaro et al. 2013
		Turkic	Kyrgyz	Kyrgyzstan	132	0.8%	Di Cristofaro et al. 2013
	Albanian	Indo-European	Albanians	Macedonia	64	2.5%	Battaglia et al. 2009
	Greek		Greeks	Macedonia	57	5.3%	Battaglia et al. 2009
	Slavic	Indo-European	Serbs	Bosnia-Herzegovina	81	6.1%	Battaglia et al. 2009
		Indo-European	Czech	Czech Republic	75	5.3%	Battaglia et al. 2009
		Indo-European	Croats	Croatia	720	5.0%	Sarac et al. 2016
	Indo-European	Croats	Bosnia-Herzegovina	90	4.5%	Battaglia et al. 2009	
	Indo-European	Croats (Osijek)	Croatia	29	4.5%	Battaglia et al. 2009	
	Indo-European	Bulgarians	Bulgaria	808	4.2%	Karachanak et al. 2013	
	Indo-European	Ukrainians	Ukraine	92	3.3%	Battaglia et al. 2009	
	Indo-European	Serb	Serbia	103	2.9%	Regueiro et al. 2012	
Indo-European	Croats	Croatia	89	2.2%	Battaglia et al. 2009		
Indo-European	Kurpie	Poland	158	1.9%	Rebala et al. 2013		

Region	Language Group	Language Family	Population	Location	Sample Size	J2b-M12	Reference
		Indo-European	Slovaks	Slovakia	164	1.2%	Rebala et al. 2013
		Indo-European	Bosniacs	Bosnia-Herzegovina	84	1.2%	Battaglia et al. 2009
		Indo-European	Poles	Poland	99	1.0%	Battaglia et al. 2009
		Indo-European	Kashubians	Poland	204	1.0%	Rebala et al. 2013
		Indo-European	Kociewie	Poland	158	0.6%	Rebala et al. 2013
Mediterranean							
	Albanian						
		Indo-European	Gheg	Albania	119	26.7%	Sarno et al. 2016, Ferri et al. 2010
		Indo-European	Albanians	Albania	55	14.5%	Battaglia et al. 2009
		Indo-European	Albanians (Tosk)	Albania	104	11.5%	Sarno et al. 2016, Ferri et al. 2010
	Greek						
		Indo-European	Greeks (Sesklo/Dimini)	Greece	57	9.0%	King et al. 2011
		Indo-European	Greeks	Greece	92	8.7%	Battaglia et al. 2009
		Indo-European	Greek Cypriots	Cyprus	629	7.3%	Voskarides et al. 2016
		Indo-European	Greeks (Nea Nikomedeia)	Greece	57	7.0%	King et al. 2011
		Indo-European	Greeks	Smyrna, Greece	58	7.0%	King et al. 2011
		Indo-European	Greeks	Phokaia, Greece	31	3.0%	King et al. 2011
		Indo-European	Greeks	Lerna/Franchthi Cave, Greece	57	2.0%	King et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	J2b-M12	Reference
		Indo-European	Cretans	Crete	168	1.8%	Martinez et al. 2007
	Italic						
		Indo-European	Sardianians	Italy	236	5.5%	Di Gaetano et al. 2009
		Indo-European	Italians	Italy	884	1.9%	Boattini et al. 2013
Middle East							
	Armenian						
		Indo-European	Armenians	Iran	34	5.9%	Grugni et al. 2012
		Indo-European	Armenians (Central)	Turkey	200	4.0%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Lake Van)	Turkey	103	1.9%	Herrera et al. 2012
		Indo-European	Armenians (Van)	Turkey	103	1.9%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Salmast)	Iran	199	1.0%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Western)	Turkey	148	0.7%	Hovhannisyan et al. 2014
	Iranian						
		Indo-European	Persians (Yazd)	Iran	46	4.3%	Grugni et al. 2012
		Indo-European	Mazanderani	Iran	72	4.2%	Grugni et al. 2012
		Indo-European	Iranians	Iran	150	3.3%	Regueiro et al. 2006; Chiaroni et al. 2010
	Semitic						
		Afro-Asiatic	Omani	Omani	121	4.0%	Luis et al. 2004; Chiaroni et al. 2008
		Afro-Asiatic	Qatarian	Qatar	72	2.8%	Cadenas et al. 2008

Region	Language Group	Language Family	Population	Location	Sample Size	J2b-M12	Reference
		Afro-Asiatic	Lebanese	Lebanon	916	2.7%	Zalloua et al. 2008
		Afro-Asiatic	Iraqis	Iraq	154	2.6%	Al-Zahery et al. 2011
		Afro-Asiatic	Jordanian	Jordan	146	2.1%	Flores et al. 2005
		Afro-Asiatic	Saudis	Saudi Arabia	157	1.3%	Abu-Amero et al. 2009
		Afro-Asiatic	Emirati	United Arab Emirates	164	1.2%	Cadenas et al. 2008; Chiaroni et al. 2010
	Turkic						
		Turkic	Turks	Turkey	33	3.0%	King et al. 2011
		Turkic	Turks	Turkey	523	1.7%	Cinnioglu et al. 2004
North Africa							
	Semitic						
		Afro-Asiatic	Egyptians	Egypt	147	1.0%	Luis et al. 2004; Chiaroni et al. 2008
Northern Eurasia							
	Turkic						
		Turkic	Tatars	Siberia, Russia	776	3.5%	Agdzhoyan et al. 2016
South Asia							
	Austro-Asiatic						
		Austro-Asiatic	Asur	India	40	77.5%	Singh et al. 2016
		Austro-Asiatic	Korku	India	36	16.7%	Singh et al. 2016
		Austro-Asiatic	Hill Korwa	India	35	2.8%	Singh et al. 2016
	Dravidian						
		Dravidian	Narikuravar	India	95	57.9%	Singh et al. 2016

Region	Language Group	Language Family	Population	Location	Sample Size	J2b-M12	Reference
		Dravidian	Pichakuntla	India	39	48.7%	Singh et al. 2016
		Dravidian	Chenchu	India	38	17.1%	Singh et al. 2016
		Dravidian	Mondi	India	44	15.2%	Singh et al. 2016
		Dravidian	Vokkaliga	Southwest India	102	7.0%	Chennakrishnaiah et al. 2013
		Dravidian	Toda	India	29	6.9%	Singh et al. 2016
		Dravidian	Lingayat	India	45	6.7%	Singh et al. 2016
		Dravidian	Vysya	India	40	5.0%	Singh et al. 2016
		Dravidian	Palliyar	India	21	5.0%	Singh et al. 2016
		Dravidian	Naidu	India	20	5.0%	Singh et al. 2016
		Dravidian	Reddy	India	49	2.0%	Singh et al. 2016
		Dravidian	Yanadi	India	53	1.9%	Singh et al. 2016
		Dravidian	Lingayat	Southwest India	101	1.0%	Chennakrishnaiah et al. 2013
	Indo-Aryan						
		Indo-European	Shikari	India	46	36.4%	Singh et al. 2016
		Indo-European	Buxas	India	40	15.0%	Singh et al. 2016
		Indo-European	Bahelia	India	52	13.5%	Singh et al. 2016
		Indo-European	Meena	India	40	12.5%	Singh et al. 2016
		Indo-European	Chaudhari	Gujarat, India	113	11.5%	Khurana et al. 2014
		Indo-European	Sindhi	Pakistan	21	9.5%	Di Cristofaro et al. 2013
		Indo-European	Tadvi	India	42	9.5%	Singh et al. 2016
		Indo-European	Kashmiri Pandit	India	23	8.7%	Singh et al. 2016

Region	Language Group	Language Family	Population	Location	Sample Size	J2b-M12	Reference
		Indo-European	Bengali	West Bengal, India	54	7.4%	Debnath et al. 2011
		Indo-European	Bhil	India	17	5.8%	Singh et al. 2016
		Indo-European	Lohana	India	39	5.1%	Singh et al. 2016
		Indo-European	Kalash	Pakistan	20	5.0%	Di Cristofaro et al. 2013
		Indo-European	Dhodia	Gujarat, India	63	4.8%	Khurana et al. 2014
		Indo-European	Dubla	Gujarat, India	42	4.8%	Khurana et al. 2014
		Indo-European	Vasava	Gujarat, India	24	4.2%	Khurana et al. 2014
		Indo-European	Tharu	Nepal	202	4.0%	Chaubey et al. 2014; Fornarino et al. 2009
		Indo-European	Khatri	India	71	3.9%	Singh et al. 2016
		Indo-European	Rajbanshi	West Bengal, India	51	3.9%	Debnath et al. 2011
		Indo-European	Tharu	Uttar Pradesh, India	164	3.7%	Chaubey et al. 2014
		Indo-European	Baiga	India	28	3.6%	Singh et al. 2016
		Indo-European	Chattisgarh	India	126	3.2%	Singh et al. 2016
		Indo-European	Kotiya	India	74	2.7%	Singh et al. 2016
		Indo-European	Sonakar	India	39	2.6%	Singh et al. 2016
		Indo-European	Tharu	India	41	2.4%	Singh et al. 2016
		Indo-European	Uttar Pradesh	India	91	1.1%	Singh et al. 2016
	Iranian						
		Indo-European	Sugali	India	76	2.6%	Singh et al. 2016
	Isolate						

Region	Language Group	Language Family	Population	Location	Sample Size	J2b-M12	Reference
		Isolate	Burusho	Pakistan	20	5.0%	Di Cristofaro et al. 2013
	Tibeto-Burman						
		Sino-Tibetan	Thapa	India	39	7.7%	Singh et al. 2016
Sub-Saharan Africa	Semitic						
		Afro-Asiatic	Amhara	Ethiopia	27	4.0%	Haber et al. 2016
Western Europe	Germanic						
		Indo-European	Germans	Bavaria, Germany	218	1.4%	Rebala et al. 2013
		Indo-European	Flemish	Flanders	773	0.8%	Larmuseau et al. 2014
	Slavic						
		Indo-European	Sorbs	Germany	123	0.8%	Rebala et al. 2013

Supplementary Table 11.5. Distribution of Ancient J1-M267 Mutations.

Region	Master ID	Culture 2	Country	Location	Death	Mutation	Reference
Caucasus							
	SATP	Paleolithic	Georgia	Satsurbliia	13255	J1-M267	Jones et al. 2015; Reich Dataset V42.4 (2020)
	VEK007	Bronze Age	Russia	Kaspi sea shore, Velikent	4850	J1-M267	Wang et al. 2019; Reich Dataset V42.4 (2020)
	VEK007	Bronze Age	Russia	Kaspi sea shore, Velikent	4850	J1-M267	Wang et al. 2019; Reich Dataset V42.4 (2020)
Central Asia							
	I12481	Copper Age	Turkmenistan	Geoksyur	5100	J1-M267	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I8505	Copper Age	Turkmenistan	Geoksyur	5100	J1-M267	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I8504	Copper Age	Turkmenistan	Geoksyur	4959	J1-M267	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I1784	Bronze Age	Turkmenistan	Gonur	4066	J1-M267	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	MJ-52	Bronze Age	Kazakhstan	Aksu-Ayuly-4, Mound 3	2622	J1a-P58	Jarve et al. 2019; Reich Dataset V42.4 (2020)
Middle East							
	KRD003	Neolithic	Turkey	Tell Kurdu	6739	J1-M267	Skourtanioti et al. 2020
	ART018	Bronze Age	Turkey	Arslantepe	4573	J1-M267	Skourtanioti et al. 2020
	I2495	Bronze Age	Turkey	Mediterranean, Isparta, Harmanören-Göndürle Höyük	4377	J1a-P58	Lazaridis et al. 2017; Reich Dataset V42.4 (2020)
	I1705	Bronze Age	Jordan	'Ain Ghazal	4032	J1-M267	Lazaridis et al. 2016; Reich Dataset V42.4 (2020)
	ETM012	Bronze Age	Syria	Ebla	3997	J1a-P58	Skourtanioti et al. 2020
	burial 54	Bronze Age	Lebanon	Tell el-Burak, Sidon	3770	J1a-P58	Haber et al. 2017

Region	Master ID	Culture 2	Country	Location	Death	Mutation	Reference
	ALA035	Bronze Age	Turkey	Alalakh	3543	J1a-P58	Skourtanioti et al. 2020
	ALA026	Bronze Age	Turkey	Alalakh	3390	J1a-P58	Skourtanioti et al. 2020
	ALA002	Bronze Age	Turkey	Alalakh	3158	J1a-P58	Skourtanioti et al. 2020
	ALA018	Bronze Age	Turkey	Alalakh	3154	J1a-P58	Skourtanioti et al. 2020
	ALA001	Bronze Age	Turkey	Alalakh	3151	J1a-P58	Skourtanioti et al. 2020

Supplementary Table 11.6. Distribution of Ancient J2-M172 Mutations.

Region	Master ID	Culture 2	Country	Location	Death	Mutation	Reference
Caucasus							
	KK1	Mesolithic	Georgia	Kotias Klde	9720	J2a-M410	Jones et al. 2015; Reich Dataset V42.4 (2020)
	I2056	Neolithic	Russia	Unakozovskaya	6456	J2a-M410	Wang et al. 2019; Reich Dataset V42.4 (2020)
	I6268	Bronze Age	Russia	Klady, Dlinnaya Polyana	5564	J2a-L26	Wang et al. 2019; Reich Dataset V42.4 (2020)
	I6266	Bronze Age	Russia	Klady, Dlinnaya Polyana	5375	J2a-L26	Wang et al. 2019; Reich Dataset V42.4 (2020)
	KDC001	Bronze Age	Russia	Piedmont/mountains, Kudachurt	3824	J2b-M12	Wang et al. 2019; Reich Dataset V42.4 (2020)
Central Asia							
	DA381	Copper Age	Turkmenistan	Geoksyur	5181	J2a-L26	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
	I11028	Bronze Age	Uzbekistan	Bustan	5102	J2a-L24	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I10411	Bronze Age	Turkmenistan	Gonur	4200	J2a-M410	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I11527	Bronze Age	Kyrgyzstan	Aygirdjal	3971	J2a-L24	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I7494	Bronze Age	Uzbekistan	Sappali Tepe	3897	J2a-L26	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I7421	Bronze Age	Uzbekistan	Sappali Tepe	3799	J2a-M410	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I11027	Bronze Age	Uzbekistan	Bustan	3542	J2a-L26	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I4794	Bronze Age	Kazakhstan	Aktobe, Koboda, Taldysay	3450	J2a-L24	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)

Region	Master ID	Culture 2	Country	Location	Death	Mutation	Reference
	I4157	Bronze Age	Uzbekistan	Bustan	3400	J2a-M410	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I4159	Bronze Age	Uzbekistan	Bustan	3400	J2a-L26	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
Eastern Europe							
	I1902	Neolithic	Hungary	Felsörs, Bárókert	6600	J2a-M410	Lipson et al. 2017; Reich Dataset V42.4 (2020)
	I5078	Neolithic	Croatia	Osijek, Hermanov Vinograd	6569	J2a-L26	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	I4331	Bronze Age	Croatia	Veliki Vanik	3526	J2b-M241	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	I1504	Bronze Age	Hungary	Ludas-Varju-Dulo	3140	J2a-L26	Gamba et al. 2014; Reich Dataset V42.4 (2020)
Mediterranean							
	R19	Neolithic	Italy	Ripabianca di Monterado	7233	J2a-M410	Antonio et al. 2019; Reich Dataset V42.4 (2020)
	I0070	Bronze Age	Greece	Crete, Lassithi	4000	J2a-M319	Lazaridis et al. 2017; Reich Dataset V42.4 (2020)
	I0073	Bronze Age	Greece	Crete, Lassithi	4000	J2a-L26	Lazaridis et al. 2017; Reich Dataset V42.4 (2020)
	I9041	Bronze Age	Greece	Peloponnese, Galatas Apatheia	3250	J2a-L26	Lazaridis et al. 2017; Reich Dataset V42.4 (2020)
	I10553	Bronze Age	Italy	Sardinia, Perdasdefogu	3091	J2b-M241	Fernandes et al. 2020
	ORC003	Bronze Age	Italy	Sardinia, S'Orcu 'e Tueri	2996	J2b-M241	Marcus et al. 2020
	ORC007	Bronze Age	Italy	Sardinia, S'Orcu 'e Tueri	2992	J2b-M241	Marcus et al. 2020
	ORC008	Bronze Age	Italy	Sardinia, S'Orcu 'e Tueri	2890	J2b-M241	Marcus et al. 2020

Region	Master ID	Culture 2	Country	Location	Death	Mutation	Reference
	AH2	Neolithic	Iran	Tepe Abdul Hosein, Central Zagros	9931	J2b-M12	Broushaki et al. 2016; Reich Dataset V42.4 (2020)
	I0708	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	8097	J2a-M410	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	I4241	Copper Age	Iran	Hajji Firuz	7908	J2b-M12	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I4349	Copper Age	Iran	Hajji Firuz	7756	J2b-M12	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I2337	Neolithic	Iran	Tepe Hissar	5530	J2a-L24	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	IKI024	Neolithic	Turkey	İkiztepe	5080	J2a-M410	Skourtanioti et al. 2020
	I8726	Bronze Age	Iran	Seistan, Shahr-i Sokhta	5000	J2a-L24	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I8725	Bronze Age	Iran	Seistan, Shahr-i Sokhta	4896	J2a-L26	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I8724	Bronze Age	Iran	Seistan, Shahr-i Sokhta	4850	J2a-L26	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	MA2212	Bronze Age	Turkey	Ovaören	4700	J2a-M410	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
	ART022	Neolithic	Turkey	Arslantepe	4681	J2a-M47	Skourtanioti et al. 2020
	ART019	Neolithic	Turkey	Arslantepe	4623	J2a-M47	Skourtanioti et al. 2020
	I11474	Bronze Age	Iran	Seistan, Shahr-i Sokhta	4600	J2a-M410	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	ART023	Neolithic	Turkey	Arslantepe	4563	J2a-L26	Skourtanioti et al. 2020
	ART027	Neolithic	Turkey	Arslantepe	4546	J2a-M47	Skourtanioti et al. 2020
	ART020	Bronze Age	Turkey	Arslantepe	4536	J2a-L26	Skourtanioti et al. 2020
	ART017	Neolithic	Turkey	Arslantepe	4516	J2a-M47	Skourtanioti et al. 2020

Region	Master ID	Culture 2	Country	Location	Death	Mutation	Reference
	I11478	Bronze Age	Iran	Seistan, Shahr-i Sokhta	4500	J2a-L24	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I8728	Bronze Age	Iran	Seistan, Shahr-i Sokhta	4500	J2a-M410	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I1730	Bronze Age	Jordan	'Ain Ghazal	4344	J2b-M12	Lazaridis et al. 2016; Reich Dataset V42.4 (2020)
	ART011	Bronze Age	Turkey	Arslantepe	4103	J2a-M47	Skourtanioti et al. 2020
	ART001	Bronze Age	Turkey	Arslantepe	3908	J2a-M47	Skourtanioti et al. 2020
	MA2200	Bronze Age	Turkey	Kalehöyük	3800	J2a-L26	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
	TIT021	Bronze Age	Turkey	Tltriş-Höyük	3799	J2b-M12	Skourtanioti et al. 2020
	burial 63	Bronze Age	Lebanon	Tell el-Burak, Sidon	3650	J2b-M12	Haber et al. 2017
	ALA095	Bronze Age	Turkey	Alalakh	3516	J2b-M12	Skourtanioti et al. 2020
	ALA004	Bronze Age	Turkey	Alalakh	3507	J2a-M47	Skourtanioti et al. 2020
	ALA014	Bronze Age	Turkey	Alalakh	3392	J2b-M12	Skourtanioti et al. 2020
	ALA011	Bronze Age	Turkey	Alalakh	3382	J2a-M47	Skourtanioti et al. 2020
South Asia							
	I12458	Iron Age	Pakistan	Swat Valley, Loebanr	2850	J2-M172	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I12463	Iron Age	Pakistan	Swat Valley, Katelai	2850	J2a-L26	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I12451	Iron Age	Pakistan	Swat Valley, Butkara II	2850	J2a-L24	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I12982	Iron Age	Pakistan	Swat Valley, Loebanr	2850	J2b-M12	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I5396	Iron Age	Pakistan	Swat Valley, Katelai	2811	J2a-L26	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)

Region	Master ID	Culture 2	Country	Location	Death	Mutation	Reference
Western Europe							
	I5068	Neolithic	Austria	Kleinhadersdorf Flur Marchleiten	7088	J2-M172	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	I5207	Neolithic	Austria	Schletz	6950	J2a-M410	Mathieson et al. 2018; Reich Dataset V42.4 (2020)

Supplementary Table 11.7. Distribution of Ancient J-M304.

Mutation	Region	Culture 2	Master ID	Death	Location	Country	Reference
J1a-P58							
	Middle East	Bronze Age	I2495	4377	Mediterranean, Isparta, Harmanören-Göndürle Höyük	Turkey	Lazaridis et al. 2017; Reich Dataset V42.4 (2020)
	Middle East	Bronze Age	ETM012	3997	Ebla	Syria	Skourtanioti et al. 2020
	Middle East	Bronze Age	burial 54	3770	Tell el-Burak, Sidon	Lebanon	Haber et al. 2017
	Middle East	Bronze Age	ALA035	3543	Alalakh	Turkey	Skourtanioti et al. 2020
	Middle East	Bronze Age	ALA026	3390	Alalakh	Turkey	Skourtanioti et al. 2020
	Middle East	Bronze Age	ALA002	3158	Alalakh	Turkey	Skourtanioti et al. 2020
	Middle East	Bronze Age	ALA018	3154	Alalakh	Turkey	Skourtanioti et al. 2020
	Middle East	Bronze Age	ALA001	3151	Alalakh	Turkey	Skourtanioti et al. 2020
	Central Asia	Bronze Age	MJ-52	2622	Aksu-Ayuly-4, Mound 3	Kazakhstan	Jarve et al. 2019; Reich Dataset V42.4 (2020)
J1-M267							
	Central Asia	Copper Age	I8504	4959	Geoksyur	Turkmenistan	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	Caucasus	Bronze Age	VEK007	4850	Kaspi sea shore, Velikent	Russia	Wang et al. 2019; Reich Dataset V42.4 (2020)
	Caucasus	Bronze Age	VEK007	4850	Kaspi sea shore, Velikent	Russia	Wang et al. 2019; Reich Dataset V42.4 (2020)
	Middle East	Bronze Age	ART018	4573	Arslantepe	Turkey	Skourtanioti et al. 2020
	Central Asia	Bronze Age	I1784	4066	Gonur	Turkmenistan	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	Middle East	Bronze Age	I1705	4032	'Ain Ghazal	Jordan	Lazaridis et al. 2016; Reich Dataset V42.4 (2020)

Mutation	Region	Culture 2	Master ID	Death	Location	Country	Reference
J2a-L26	Middle East	Bronze Age	I11478	4500	Seistan, Shahr-i Sokhta	Iran	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	Central Asia	Bronze Age	I11527	3971	Aygirdjal	Kyrgyzstan	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	Central Asia	Bronze Age	I4794	3450	Aktobe, Koboda, Taldysay	Kazakhstan	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	South Asia	Iron Age	I12451	2850	Swat Valley, Butkara II	Pakistan	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	Middle East	Bronze Age	I8725	4896	Seistan, Shahr-i Sokhta	Iran	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	Middle East	Bronze Age	I8724	4850	Seistan, Shahr-i Sokhta	Iran	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	Middle East	Neolithic	ART023	4563	Arslantepe	Turkey	Skourtanioti et al. 2020
	Middle East	Bronze Age	ART020	4536	Arslantepe	Turkey	Skourtanioti et al. 2020
	Mediterranean	Bronze Age	I0073	4000	Crete, Lassithi	Greece	Lazaridis et al. 2017; Reich Dataset V42.4 (2020)
	Central Asia	Bronze Age	I7494	3897	Sappali Tepe	Uzbekistan	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	Middle East	Bronze Age	MA2200	3800	Kalehöyük	Turkey	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
	Central Asia	Bronze Age	I11027	3542	Bustan	Uzbekistan	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	Central Asia	Bronze Age	I4159	3400	Bustan	Uzbekistan	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	Mediterranean	Bronze Age	I9041	3250	Peloponnese, Galatas Apatheia	Greece	Lazaridis et al. 2017; Reich Dataset V42.4 (2020)
	Eastern Europe	Bronze Age	I1504	3140	Ludas-Varju-Dulo	Hungary	Gamba et al. 2014; Reich Dataset V42.4 (2020)

Mutation	Region	Culture 2	Master ID	Death	Location	Country	Reference
J2a-M319	South Asia	Iron Age	I12463	2850	Swat Valley, Katelai	Pakistan	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	South Asia	Iron Age	I5396	2811	Swat Valley, Katelai	Pakistan	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	Mediterranean	Bronze Age	I0070	4000	Crete, Lassithi	Greece	Lazaridis et al. 2017; Reich Dataset V42.4 (2020)
J2a-M410	Middle East	Bronze Age	MA2212	4700	Ovaören	Turkey	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
	Middle East	Bronze Age	I11474	4600	Seistan, Shahr-i Sokhta	Iran	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	Middle East	Bronze Age	I8728	4500	Seistan, Shahr-i Sokhta	Iran	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	Central Asia	Bronze Age	I10411	4200	Gonur	Turkmenistan	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	Central Asia	Bronze Age	I7421	3799	Sappali Tepe	Uzbekistan	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	Central Asia	Bronze Age	I4157	3400	Bustan	Uzbekistan	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
J2a-M47	Middle East	Neolithic	ART022	4681	Arslantepe	Turkey	Skourtanioti et al. 2020
	Middle East	Neolithic	ART019	4623	Arslantepe	Turkey	Skourtanioti et al. 2020
	Middle East	Neolithic	ART027	4546	Arslantepe	Turkey	Skourtanioti et al. 2020
	Middle East	Neolithic	ART017	4516	Arslantepe	Turkey	Skourtanioti et al. 2020
	Middle East	Bronze Age	ART011	4103	Arslantepe	Turkey	Skourtanioti et al. 2020
	Middle East	Bronze Age	ART001	3908	Arslantepe	Turkey	Skourtanioti et al. 2020
	Middle East	Bronze Age	ALA004	3507	Alalakh	Turkey	Skourtanioti et al. 2020

Mutation	Region	Culture 2	Master ID	Death	Location	Country	Reference
J2b-M12	Middle East	Bronze Age	ALA011	3382	Alalakh	Turkey	Skourtanioti et al. 2020
	Middle East	Bronze Age	I1730	4344	'Ain Ghazal	Jordan	Lazaridis et al. 2016; Reich Dataset V42.4 (2020)
	Caucasus	Bronze Age	KDC001	3824	Piedmont/mountains , Kudachurt	Russia	Wang et al. 2019; Reich Dataset V42.4 (2020)
	Middle East	Bronze Age	TIT021	3799	Tİtriş-Höyük	Turkey	Skourtanioti et al. 2020
	Middle East	Bronze Age	burial 63	3650	Tell el-Burak, Sidon	Lebanon	Haber et al. 2017
	Middle East	Bronze Age	ALA095	3516	Alalakh	Turkey	Skourtanioti et al. 2020
J2b-M241	Middle East	Bronze Age	ALA014	3392	Alalakh	Turkey	Skourtanioti et al. 2020
	South Asia	Iron Age	I12982	2850	Swat Valley, Loebanr	Pakistan	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	Eastern Europe	Bronze Age	I4331	3526	Veliki Vanik	Croatia	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	Mediterranean	Bronze Age	I10553	3091	Sardinia, Perdasdefogu	Italy	Fernandes et al. 2020
	Mediterranean	Bronze Age	ORC003	2996	Sardinia, S'Orcu 'e Tueri	Italy	Marcus et al. 2020
	Mediterranean	Bronze Age	ORC007	2992	Sardinia, S'Orcu 'e Tueri	Italy	Marcus et al. 2020
J2-M172	Mediterranean	Bronze Age	ORC008	2890	Sardinia, S'Orcu 'e Tueri	Italy	Marcus et al. 2020
	South Asia	Iron Age	I12458	2850	Swat Valley, Loebanr	Pakistan	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
J-M304							

Mutation	Region	Culture 2	Master ID	Death	Location	Country	Reference
	Middle East	Copper Age	I2927	4413	Tepe Hissar	Iran	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	Central Asia	Bronze Age	I4899	3400	Bustan	Uzbekistan	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	Caucasus	Bronze Age	I2051	3260	North Caucasus, Marchenkova Gora	Russia	Wang et al. 2019; Reich Dataset V42.4 (2020)
	Caucasus	Bronze Age	RISE408	3059	Norabak	Armenia	Allentoft et al. 2015; Reich Dataset V42.4 (2020)

Supplementary Table 11.8. Contemporary Distribution of J1a-P58.

Region	Language Group	Language Family	Population	Location	Sample Size	J1a-P58	Reference
Caucasus							
	Armenian	Indo-European	Armenians Don	Russia	92	12.0%	Balanovsky et al. 2017
	Armenian	Indo-European	Armenians Krasnodar	Russia	117	3.0%	Balanovsky et al. 2017
	Armenian	Indo-European	Armenians Erzurum	Georgia	99	2.0%	Balanovsky et al. 2017
	Armenian	Indo-European	Armenians Hemshin	Russia	89	1.0%	Balanovsky et al. 2017
	North Caucasian	North Caucasian	Dargins	Daghestan	101	1.0%	Balanovsky et al. 2011
	North Caucasian	North Caucasian	Avar	Daghestan	115	1.0%	Balanovsky et al. 2011
Central Asia							
	Turkic	Turkic	Turkmen	Afghanistan	74	8.1%	Di Cristofaro et al. 2013
	Turkic	Turkic	Uzbeks	Afghanistan	127	1.6%	Di Cristofaro et al. 2013
	Iranian	Indo-European	Tajiks	Afghanistan	142	1.4%	Di Cristofaro et al. 2013
	Iranian	Indo-European	Pashtuns (Pathans)	Afghanistan	87	1.2%	Di Cristofaro et al. 2013
	Turkic	Turkic	Kyrgyz	Kyrgyzstan	132	0.8%	Di Cristofaro et al. 2013
Eastern Europe							
	Slavic	Indo-European	Bulgarians	Bulgaria	808	2.0%	Karachanak et al. 2013
	Slavic	Indo-European	Slovaks	Slovakia	164	1.8%	Rebala et al. 2013
	Slavic	Indo-European	Croats	Croatia	720	0.2%	Sarac et al. 2016
Mediterranean							
	Greek	Indo-European	Greek Cypriots	Cyprus	629	4.9%	Voskarides et al. 2016
	Italic	Indo-European	Italians	Italy	884	1.9%	Boattini et al. 2013

Region	Language Group	Language Family	Population	Location	Sample Size	J1a-P58	Reference
Middle East							
	Semitic	Afro-Asiatic	Marsh Arabs	Iraq	143	74.1%	Al-Zahery et al. 2011
	Semitic	Afro-Asiatic	Yemenite	Yemen	62	67.7%	Regueiro et al. 2006; Chiaroni et al. 2010
	Semitic	Afro-Asiatic	Bedouin	Negev	28	64.3%	Cann et al. 2002; Chiaroni et al. 2010
	Semitic	Afro-Asiatic	Qatarians	Qatar	72	56.9%	Regueiro et al. 2006; Chiaroni et al. 2010
	Semitic	Afro-Asiatic	Jordanians	Jordan	76	48.7%	Chiaroni et al. 2010
	Semitic	Afro-Asiatic	Sunni Hama	Syria	36	44.4%	Chiaroni et al. 2010
	Semitic	Afro-Asiatic	Omani	Omani	121	37.2%	Luis et al. 2004; Chiaroni et al. 2008
	Semitic	Afro-Asiatic	Emirati	UAE	164	34.8%	Regueiro et al. 2006; Chiaroni et al. 2010
	Semitic	Afro-Asiatic	Saudis	Saudi Arabia	12	33.3%	Tofanelli et al. 2009; Chiaroni et al. 2010
	Semitic	Afro-Asiatic	Palestinians	Palestine	49	32.7%	Chiaroni et al. 2010
	Semitic	Afro-Asiatic	Alawites	Syria	45	26.7%	Chiaroni et al. 2010
	Semitic	Afro-Asiatic	Iraqis	Iraq	154	26.5%	Al-Zahery et al. 2011
	Semitic	Afro-Asiatic	Iraqi	Nassiriya, Iraq	56	25.0%	Tofanelli et al. 2009; Chiaroni et al. 2010
	Semitic	Afro-Asiatic	Druze	Galilee	172	12.2%	Shlush et al. 2008; Chiaroni et al. 2008
	Semitic	Afro-Asiatic	Druze	Syria	34	11.8%	Chiaroni et al. 2010
	Semitic	Afro-Asiatic	Assyrians	Iraq	28	10.7%	Chiaroni et al. 2010
	Iranian	Indo-European	Persians (Fars)	Iran	44	9.1%	Grugni et al. 2012
	Iranian	Indo-European	Iranians	Iran	150	8.7%	Regueiro et al. 2006; Chiaroni et al. 2010

Region	Language Group	Language Family	Population	Location	Sample Size	J1a-P58	Reference
	Iranian	Indo-European	Baloch	Iran	24	8.3%	Grugni et al. 2012
	Iranian	Indo-European	Kurds	Iraq	93	7.5%	Chiaroni et al. 2010
	Semitic	Afro-Asiatic	Assyrians	Iran	31	6.5%	Chiaroni et al. 2010
	Turkic	Turkic	Turkmen	Iran	68	5.8%	Grugni et al. 2012
	Iranian	Indo-European	Mazanderani	Iran	72	5.6%	Grugni et al. 2012
	Iranian	Indo-European	Persians (Yazd)	Iran	46	4.3%	Grugni et al. 2012
	Semitic	Afro-Asiatic	Assyrians	Turkey	25	4.0%	Chiaroni et al. 2010
	Iranian	Indo-European	Lurs	Iran	50	3.9%	Grugni et al. 2012
	Iranian	Indo-European	Kurds	Iran	59	3.4%	Grugni et al. 2012
	Semitic	Afro-Asiatic	Assyrians	Northeastern Syria	30	3.3%	Chiaroni et al. 2010
	Iranian	Indo-European	Persians (Khorasan)	Iran	59	1.7%	Grugni et al. 2012
	Iranian	Indo-European	Gilaki	Iran	64	1.6%	Grugni et al. 2012
	Turkic	Turkic	Turks	Turkey	523	0.4%	Cinnioglu et al. 2004
North Africa							
	Semitic	Afro-Asiatic	Sousse	Tunisia	220	25.0%	Fadhlaoui-Zid et al. 2015
	Semitic	Afro-Asiatic	Amhara	Sudan	48	20.8%	Hassan et al. 2008; Chiaroni et al. 2010
	Semitic	Afro-Asiatic	Egyptians	Egypt	147	19.7%	Luis et al. 2004; Chiaroni et al. 2008
	Cushitic	Afro-Asiatic	Oromo	Sudan	78	1.3%	Hassan et al. 2008
South Asia							
	Dravidian	Dravidian	Brahui	Pakistan	25	12.0%	Di Cristofaro et al. 2013
	Iranian	Indo-European	Baloch	Pakistan	25	4.0%	Di Cristofaro et al. 2013
Western Europe							

Region	Language Group	Language Family	Population	Location	Sample Size	J1a-P58	Reference
	Germanic	Indo-European	Flemish	Flanders	773	0.8%	Larmuseau et al. 2014
	Germanic	Indo-European	Germans	Bavaria, Germany	218	0.5%	Rebala et al. 2013

Supplementary Table 11.9. Neolithic Y-Chromosome Data from the Marmara Region.

Master ID	Culture 2	Country	Location	Death	Mutation	Reference
I1096	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	8300	I2c-L596	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
I1101	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	8300	H2-P96	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
I1103	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	8300	G2a-L91	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
I1099	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	8300	G2a-L91	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
I1102	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	8300	C1a-V20	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
I1097	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	8288	G2a-P303	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
I1583	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	8281	G2a-L91	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
I0744	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	8273	G2a-P303	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
I0745	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	8251	H2-P96	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
I0708	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	8097	J2a-M410	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
I0709	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	8086	H2-P96	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
I0746	Neolithic	Turkey	Northwest Anatolia, Marmara, Barcin	7930	G2a-P303	Mathieson et al. 2015; Reich Dataset V42.4 (2020)

Supplementary Table 11.10. Contemporary Distribution of J2b-M241.

Region	Language Group	Language Family	Population	Location	Sample Size	J2b-M241	Reference
Caucasus							
	Armenian	Indo-European	Armenians (Gardman)	Azerbaijan	96	2.1%	Herrera et al. 2012
Central Asia							
	Iranian	Indo-European	Pashtuns (Pathans)	Afghanistan	190	2.1%	Lacau et al. 2012
		Indo-European	Tajiks	Afghanistan	56	1.8%	
	Turkic	Turkic	Kyrgyz	Kyrgyzstan	132	0.8%	Di Cristofaro et al. 2013
Eastern Europe							
	Albanian	Indo-European	Albanians	Macedonia	64	2.5%	Battaglia et al. 2009
	Greek	Indo-European	Greeks	Macedonia	57	1.8%	Battaglia et al. 2009
	Slavic	Indo-European	Czech	Czech Republic	75	4.0%	Battaglia et al. 2009
		Indo-European	Bulgarians	Bulgaria	808	3.8%	Karachanak et al. 2013
		Indo-European	Croats	Bosnia-Herzegovina	90	3.4%	Battaglia et al. 2009
		Indo-European	Serbs	Bosnia-Herzegovina	81	2.4%	Battaglia et al. 2009
		Indo-European	Ukrainians	Ukraine	92	2.2%	Battaglia et al. 2009
		Indo-European	Kurpie	Poland	158	1.9%	Rebala et al. 2013

Region	Language Group	Language Family	Population	Location	Sample Size	J2b-M241	Reference
		Indo-European	Slovaks	Slovakia	164	1.2%	Rebala et al. 2013
		Indo-European	Croats (Osijek)	Croatia	29	1.1%	Battaglia et al. 2009
		Indo-European	Poles	Poland	99	1.0%	Battaglia et al. 2009
		Indo-European	Kashubians	Poland	204	1.0%	Rebala et al. 2013
		Indo-European	Kociewie	Poland	158	0.6%	Rebala et al. 2013
Mediterranean							
	Albanian						
		Indo-European	Albanians	Albania	55	14.5%	Battaglia et al. 2009
		Indo-European	Gheg	Albania	119	1.5%	Sarno et al. 2016, Ferri et al. 2010
	Greek						
		Indo-European	Greeks (Sesklo/Dimini)	Greece	57	7.0%	King et al. 2011
		Indo-European	Greeks (Nea Nikomedeia)	Greece	57	7.0%	King et al. 2011
		Indo-European	Greeks	Greece	92	6.5%	Battaglia et al. 2009
		Indo-European	Greeks	Smyrna, Greece	58	2.0%	King et al. 2011
		Indo-European	Greeks	Lerna/Franchthi Cave, Greece	57	2.0%	King et al. 2011
		Indo-European	Greek Cypriots	Cyprus	629	0.6%	Voskarides et al. 2016
		Indo-European	Cretans	Crete	168	0.6%	Martinez et al. 2007
	Italic						
		Indo-European	Sardianians	Italy	236	4.7%	Di Gaetano et al. 2009
		Indo-European	Italians	Italy	884	1.5%	Boattini et al. 2013
Middle East							
	Iranian						

Region	Language Group	Language Family	Population	Location	Sample Size	J2b-M241	Reference
		Indo-European	Persians (Yazd)	Iran	46	4.3%	Grugni et al. 2012
		Indo-European	Mazanderani	Iran	72	1.4%	Grugni et al. 2012
		Indo-European	Iranians	Iran	150	1.3%	Regueiro et al. 2006; Chiaroni et al. 2010
	Semitic						
		Afro-Asiatic	Qatarian	Qatar	72	1.4%	Cadenas et al. 2008
		Afro-Asiatic	Iraqis	Iraq	154	1.3%	Al-Zahery et al. 2011
	Turkic						
		Turkic	Turks	Turkey	33	3.0%	King et al. 2011
		Turkic	Turks	Turkey	523	1.0%	Cinnioglu et al. 2004
South Asia							
	Austro-Asiatic						
		Austro-Asiatic	Asur	India	40	77.5%	Singh et al. 2016
		Austro-Asiatic	Korku	India	36	16.7%	Singh et al. 2016
		Austro-Asiatic	Hill Korwa	India	35	2.8%	Singh et al. 2016
	Dravidian						
		Dravidian	Narikuravar	India	95	57.9%	Singh et al. 2016
		Dravidian	Pichakuntla	India	39	48.7%	Singh et al. 2016
		Dravidian	Chenchu	India	38	17.1%	Singh et al. 2016
		Dravidian	Mondi	India	44	15.2%	Singh et al. 2016
		Dravidian	Toda	India	29	6.9%	Singh et al. 2016
		Dravidian	Lingayat	India	45	6.7%	Singh et al. 2016
		Dravidian	Vysya	India	40	5.0%	Singh et al. 2016
		Dravidian	Naidu	India	20	5.0%	Singh et al. 2016
		Dravidian	Palliyar	India	21	5.0%	Singh et al. 2016

Region	Language Group	Language Family	Population	Location	Sample Size	J2b-M241	Reference
		Dravidian	Vokkaliga	Southwest India	102	3.0%	Chennakrishnaiah et al. 2013
		Dravidian	Reddy	India	49	2.0%	Singh et al. 2016
		Dravidian	Yanadi	India	53	1.9%	Singh et al. 2016
	Indo-Aryan						
		Indo-European	Shikari	India	46	36.4%	Singh et al. 2016
		Indo-European	Buxas	India	40	15.0%	Singh et al. 2016
		Indo-European	Bahelia	India	52	13.5%	Singh et al. 2016
		Indo-European	Chaudhari	Gujarat, India	113	11.5%	Khurana et al. 2014
		Indo-European	Sindhi	Pakistan	21	9.5%	Di Cristofaro et al. 2013
		Indo-European	Tadvi	India	42	9.5%	Singh et al. 2016
		Indo-European	Kashmiri Pandit	India	23	8.7%	Singh et al. 2016
		Indo-European	Meena	India	40	7.5%	Singh et al. 2016
		Indo-European	Bengali	West Bengal, India	54	7.4%	Debnath et al. 2011
		Indo-European	Bhil	India	17	5.8%	Singh et al. 2016
		Indo-European	Lohana	India	39	5.1%	Singh et al. 2016
		Indo-European	Kalash	Pakistan	20	5.0%	Di Cristofaro et al. 2013
		Indo-European	Dubla	Gujarat, India	42	4.8%	Khurana et al. 2014
		Indo-European	Dhodia	Gujarat, India	63	4.8%	Khurana et al. 2014
		Indo-European	Vasava	Gujarat, India	24	4.2%	Khurana et al. 2014
		Indo-European	Tharu	Nepal	202	4.0%	Chaubey et al. 2014; Fornarino et al. 2009
		Indo-European	Rajbanshi	West Bengal, India	51	3.9%	Debnath et al. 2011
		Indo-European	Tharu	Uttar Pradesh, India	164	3.7%	Chaubey et al. 2014

Region	Language Group	Language Family	Population	Location	Sample Size	J2b-M241	Reference
		Indo-European	Baiga	India	28	3.6%	Singh et al. 2016
		Indo-European	Chattisgarh	India	126	3.2%	Singh et al. 2016
		Indo-European	Kotiya	India	74	2.7%	Singh et al. 2016
		Indo-European	Khatri	India	71	2.6%	Singh et al. 2016
		Indo-European	Tharu	India	41	2.4%	Singh et al. 2016
		Indo-European	Uttar Pradesh	India	91	1.1%	Singh et al. 2016
	Iranian						
		Indo-European	Sugali	India	76	2.6%	Singh et al. 2016
	Isolate						
		Isolate	Burusho	Pakistan	20	5.0%	Di Cristofaro et al. 2013
	Tibeto-Burman						
		Sino-Tibetan	Thapa	India	39	7.7%	Singh et al. 2016
Western Europe							
	Germanic						
		Indo-European	Germans	Bavaria, Germany	218	1.4%	Rebala et al. 2013
		Indo-European	Flemish	Flanders	773	0.8%	Larmuseau et al. 2014
	Slavic						
		Indo-European	Sorbs	Germany	123	0.8%	Rebala et al. 2013

Supplementary Table 11.11. Contemporary Distribution of J2-M172 in Central and East Asia.

Region	Language Group	Language Family	Population	Location	Sample Size	J2-M172	Reference
Central Asia							
	Chinese						
		Sino-Tibetan	Dungan	Uzbekistan	31	6.5%	Zhabagin et al. 2017
	Iranian						
		Indo-European	Hazara	Afghanistan	60	26.7%	Haber et al. 2012
		Indo-European	Tajiks	Afghanistan	56	16.1%	Haber et al. 2012
		Indo-European	Tajiks	Afghanistan	142	14.8%	Di Cristofaro et al. 2013
		Indo-European	Hazara	Afghanistan	77	13.0%	Di Cristofaro et al. 2013
		Indo-European	Pashtuns (Pathans)	Afghanistan	87	5.8%	Di Cristofaro et al. 2013
		Indo-European	Pashtuns (Pathans)	Afghanistan	190	5.7%	Lacau et al. 2012
		Indo-European	Pashtuns (Pathans)	Afghanistan	49	2.0%	Haber et al. 2012
	Turkic						
		Turkic	Uzbek	Uzbekistan	52	16.4%	Zhabagin et al. 2017
		Turkic	Uzbeks	Afghanistan	127	15.8%	Di Cristofaro et al. 2013
		Turkic	Uzbek	Uzbekistan	98	13.2%	Zhabagin et al. 2017
		Turkic	Uzbek	Uzbekistan	67	11.5%	Zhabagin et al. 2017
		Turkic	Kazakh	Kazakhstan	94	8.6%	Zhabagin et al. 2017
		Turkic	Turkmen	Afghanistan	74	8.1%	Di Cristofaro et al. 2013
		Turkic	Kazakh	Kazakhstan	81	6.2%	Zhabagin et al. 2017
		Turkic	Karakalpaks	Uzbekistan	100	5.0%	Zhabagin et al. 2017
		Turkic	Kyrgyz	Kyrgyzstan	132	3.8%	Di Cristofaro et al. 2013
		Turkic	Kazakh	Kazakhstan	55	1.8%	Zhabagin et al. 2017

Region	Language Group	Language Family	Population	Location	Sample Size	J2-M172	Reference
East Asia		Turkic	Kazakh	Kazakhstan	119	1.7%	Zhabagin et al. 2017
		Turkic	Turkmen	Uzbekistan	83	1.2%	Zhabagin et al. 2017
	Iranian						
		Indo-European	Tajiks	Northwestern China	31	16.1%	Shou et al. 2010
	Turkic						
	Turkic	Uygurs	Northwestern China	50	34.0%	Shou et al. 2010	
	Turkic	Uzbek	Northwestern China	23	30.4%	Shou et al. 2010	
	Turkic	Keriyans	Xinjiang, China	70	14.0%	Chen et al. 2014	

Supplementary Table 11.12. Contemporary Distribution of J2a-M67.

Region	Language Group	Language Family	Population	Location	Sample Size	J2a-M67	Reference
Caucasus							
	Armenian						
		Indo-European	Armenians Hemshin	Russia	89	28.0%	Balanovsky et al. 2017
		Indo-European	Armenians Krasnodar	Russia	117	21.0%	Balanovsky et al. 2017
		Indo-European	Armenians (Gardman)	Azerbaijan	96	14.6%	Herrera et al. 2012
		Indo-European	Ararat Valley-Armenian	Armenia	110	12.7%	Herrera et al. 2012
		Indo-European	Armenians Don	Russia	92	12.0%	Balanovsky et al. 2017
		Indo-European	Armenians Adigei	Russia	49	12.0%	Balanovsky et al. 2017
		Indo-European	Armenians (Eastern)	Armenia	416	10.4%	Hovhannisyan et al. 2014
		Indo-European	Armenians Erzurum	Georgia	99	10.0%	Balanovsky et al. 2017
	Iranian						
		Indo-European	Tats	Daghestan	24	17.0%	Karafet et al. 2016
	Kartvelian						
		Kartvelian	Georgians	Georgia	66	18.2%	Battaglia et al. 2009
	North Caucasian						
		North Caucasian	Ingush	Russia	143	87.4%	Balanovsky et al. 2011
		North Caucasian	Chechens (Chechnya)	Russia	118	57.0%	Balanovsky et al. 2011
		North Caucasian	Abkhaz	Russia	58	8.6%	Balanovsky et al. 2011
		North Caucasian	Avar	Daghestan	33	3.0%	Karafet et al. 2016

Region	Language Group	Language Family	Population	Location	Sample Size	J2a-M67	Reference
		North Caucasian	Dargins	Daghestan	101	1.0%	Balanovsky et al. 2011
		North Caucasian	Avar	Daghestan	115	1.0%	Balanovsky et al. 2011
	Turkic						
		Turkic	Kumyks	Daghestan	21	10.0%	Karafet et al. 2016
		Turkic	Balkarian	Caucasus	38	5.3%	Battaglia et al. 2009
		Turkic	Nogais	Daghestan	22	5.0%	Karafet et al. 2016
Central Asia							
	Iranian						
		Indo-European	Tajiks	Afghanistan	56	1.8%	Haber et al. 2012
		Indo-European	Tajiks	Afghanistan	142	1.4%	Di Cristofaro et al. 2013
	Turkic						
		Turkic	Uzbeks	Afghanistan	127	3.2%	Di Cristofaro et al. 2013
		Turkic	Uzbek	Uzbekistan	98	3.0%	Zhabagin et al. 2017
		Turkic	Karakalpaks	Uzbekistan	100	2.0%	Zhabagin et al. 2017
		Turkic	Uzbek	Uzbekistan	67	1.5%	Zhabagin et al. 2017
		Turkic	Kazakh	Kazakhstan	94	1.1%	Zhabagin et al. 2017
		Turkic	Kyrgyz	Kyrgyzstan	132	0.8%	Di Cristofaro et al. 2013
East Asia							
	Turkic						
		Turkic	Keriyans	Xinjiang, China	70	14.0%	Chen et al. 2014
Eastern Europe							
	Albanian						
		Indo-European	Albanians	Macedonia	64	1.6%	Battaglia et al. 2009
	Greek						
		Indo-European	Greeks	Macedonia	57	3.5%	Battaglia et al. 2009

Region	Language Group	Language Family	Population	Location	Sample Size	J2a-M67	Reference
Mediterranean	Italic						
		Indo-European	Moldavians	Moldova	125	0.8%	Varzari et al. 2013.
	Slavic						
		Indo-European	Bosniacs	Bosnia-Herzegovina	84	6.0%	Battaglia et al. 2009
		Indo-European	Croats (Osijek)	Croatia	29	3.4%	Battaglia et al. 2009
		Indo-European	Ukrainians	Ukraine	92	2.2%	Battaglia et al. 2009
		Indo-European	Serb	Serbia	103	2.0%	Regueiro et al. 2012
		Indo-European	Bulgarians	Bulgaria	808	1.6%	Karachanak et al. 2013
		Indo-European	Slovenians	Slovenia	75	1.3%	Battaglia et al. 2009
		Indo-European	Croats	Croatia	720	1.0%	Sarac et al. 2016
	Indo-European	Kurpie	Poland	158	0.6%	Rebala et al. 2013	
	Uralic						
		Uralic	Hungarians	Hungary	53	1.9%	Battaglia et al. 2009
	Albanian						
		Indo-European	Albanians	Albania	55	5.4%	Battaglia et al. 2009
	Greek						
		Indo-European	Greek Cypriots	Cyprus	629	10.3%	Voskarides et al. 2016
		Indo-European	Cretans	Crete	193	7.8%	King et al. 2008
		Indo-European	Cretans	Crete	168	7.7%	Martinez et al. 2007
		Indo-European	Greeks	Greece	92	7.6%	Battaglia et al. 2009
		Indo-European	Greeks	Lerna/Franchthi Cave, Greece	57	7.0%	King et al. 2011
		Indo-European	Greeks (Sesklo/Dimini)	Greece	57	6.0%	King et al. 2011
		Indo-European	Greeks	Smyrna, Greece	58	5.0%	King et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	J2a-M67	Reference
Italic		Indo-European	Greeks	Phokaia, Greece	31	3.0%	King et al. 2011
		Indo-European	Greeks (Nea Nikomedeia)	Greece	57	2.0%	King et al. 2011
		Indo-European	Italians	North Eastern Italy	67	7.5%	Battaglia et al. 2009
		Indo-European	Sardianians	Italy	236	5.1%	Di Gaetano et al. 2009
		Indo-European	Italians	Italy	884	3.9%	Boattini et al. 2013
	Middle East						
Armenian							
		Indo-European	Armenians	Iran	34	8.8%	Grugni et al. 2012
		Indo-European	Armenians (Van)	Turkey	103	7.8%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Lake Van)	Turkey	103	7.8%	Herrera et al. 2012
		Indo-European	Armenians (Sasun)	Turkey	104	7.7%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Sasun)	Turkey	104	7.7%	Herrera et al. 2012
		Indo-European	Armenians (Salmast)	Iran	199	7.5%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Central)	Turkey	200	7.0%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Western)	Turkey	148	6.8%	Hovhannisyan et al. 2014
Iranian							
		Indo-European	Baloch	Iran	24	12.5%	Grugni et al. 2012
		Indo-European	Ossetians (Iron)	Iran	230	11.3%	Balanovsky et al. 2011
		Indo-European	Persians (Fars)	Iran	44	11.3%	Grugni et al. 2012
		Indo-European	Kurds	Iran	59	8.5%	Grugni et al. 2012
		Indo-European	Ossetians (Digor)	Iran	127	5.5%	Balanovsky et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	J2a-M67	Reference
		Indo-European	Gilaki	Iran	64	4.7%	Grugni et al. 2012
		Indo-European	Lurs	Iran	50	3.9%	Grugni et al. 2012
		Indo-European	Iranians	Iran	150	3.3%	Regueiro et al. 2006; Chiaroni et al. 2010
	Semitic	Indo-European	Persians (Yazd)	Iran	46	2.1%	Grugni et al. 2012
		Afro-Asiatic	Lebanese	Lebanon	916	7.9%	Zalloua et al. 2008
		Afro-Asiatic	Iraqis	Iraq	154	6.5%	Al-Zahery et al. 2011
		Afro-Asiatic	Yemenite	Yemen	62	4.8%	Cadenas et al. 2008; Chiaroni et al. 2010
		Afro-Asiatic	Jordanian	Jordan	146	4.8%	Flores et al. 2005
		Afro-Asiatic	Assyrians	Iran	39	2.6%	Grugni et al. 2012
		Afro-Asiatic	Emirati	United Arab Emirates	164	1.8%	Cadenas et al. 2008; Chiaroni et al. 2010
		Afro-Asiatic	Qatarian	Qatar	72	1.4%	Cadenas et al. 2008
		Afro-Asiatic	Omani	Omani	121	1.0%	Luis et al. 2004; Chiaroni et al. 2008
		Afro-Asiatic	Saudis	Saudi Arabia	157	0.6%	Abu-Amero et al. 2009
	Turkic						
		Turkic	Turks (Northwest Anatolia)	Turkey	52	14.0%	King et al. 2011
		Turkic	Central Anatolia population**	Turkey	90	9.0%	King et al. 2011
		Turkic	Turks	Turkey	523	6.3%	Cinnioglu et al. 2004
		Turkic	Turks	Turkey	33	3.0%	King et al. 2011
		Turkic	Turks (Western Anatolia)	Turkey	30	3.0%	King et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	J2a-M67	Reference
North Africa	Turkic	Turkic	Azerbaijani	Iran	63	2.6%	Grugni et al. 2012
		Turkic	Turkmen	Iran	68	1.4%	Grugni et al. 2012
	Semitic	Afro-Asiatic	Egyptians	Egypt	147	3.0%	Luis et al. 2004; Chiaroni et al. 2008
South Asia							
Western Europe	Dravidian	Dravidian	Brahui	Pakistan	25	8.0%	Di Cristofaro et al. 2013
	Germanic	Indo-European	Germans	Bavaria, Germany	218	3.2%	Rebala et al. 2013
		Indo-European	Germans	Mecklenburg, Germany	131	2.3%	Rebala et al. 2013
		Indo-European	Flemish	Flanders	773	0.9%	Larmuseau et al. 2014
Italic							
		Indo-European	French (Provence)	France	51	2.0%	King et al. 2011
	Slavic	Indo-European	Sorbs	Germany	123	1.6%	Rebala et al. 2013

Supplementary Table 11.13. Contemporary Distribution of J2a-M47.

Region	Language Group	Population	Location	Sample Size	Percent J2a-M47	Reference
Caucasus						
	Kartvelian	Georgians	Georgia	66	1.5%	Battaglia et al. 2009
Central Asia						
	Turkic	Uzbek	Uzbekistan	52	1.9%	Zhabagin et al. 2017
	Turkic	Kazakh	Kazakhstan	94	1.1%	Zhabagin et al. 2017
	Turkic	Uzbek	Uzbekistan	98	1.0%	Zhabagin et al. 2017
	Turkic	Uzbeks	Afghanistan	127	0.8%	Di Cristofaro et al. 2013
Eastern Europe						
	Slavic	Bulgarians	Bulgaria	808	0.1%	Karachanak et al. 2013
Mediterranean						
	Albanian	Gheg	Albania	119	0.8%	Sarno et al. 2016, Ferri et al. 2010
Middle East						
	Semitic	Lebanese	Lebanon	916	15.3%	Zalloua et al. 2008
	Iranian	Mazanderani	Iran	72	8.3%	Grugni et al. 2012
	Armenian	Armenians	Iran	34	5.9%	Grugni et al. 2012
	Iranian	Lurs	Iran	50	5.9%	Grugni et al. 2012
	Iranian	Persians (Khorasan)	Iran	59	3.4%	Grugni et al. 2012
	Iranian	Iranians	Iran	150	3.3%	Regueiro et al. 2006; Chiaroni et al. 2010
	Iranian	Gilaki	Iran	64	3.1%	Grugni et al. 2012
	Semitic	Iraqis	Iraq	154	2.6%	Al-Zahery et al. 2011
	Semitic	Saudis	Saudi Arabia	157	2.6%	Abu-Amero et al. 2009
	Semitic	Emirati	United Arab Emirates	164	1.8%	Cadenas et al. 2008; Chiaroni et al. 2010
	Iranian	Kurds	Iran	59	1.7%	Grugni et al. 2012

Region	Language Group	Population	Location	Sample Size	Percent J2a-M47	Reference
	Semitic	Qatari	Qatar	72	1.4%	Cadenas et al. 2008
	Turkic	Turks	Turkey	523	1.2%	Cinnioglu et al. 2004

Supplementary Table 11.14. Contemporary Distribution of J2a-M68.

Region	Language Group	Population	Location	Sample Size	Percent J2a-M68	Reference
Central Asia						
	Iranian	Pashtuns (Pathans)	Afghanistan	190	0.5%	Lacau et al. 2012
Middle East						
	Semitic	Iraqis	Iraq	154	1.3%	Al-Zahery et al. 2011
South Asia						
	Dravidian	Toda	India	29	48.3%	Singh et al. 2017
	Indo-Aryan	Mahadev Koli	India	41	9.8%	Singh et al. 2017
	Dravidian	Badagas	India	56	8.9%	Singh et al. 2017
	Dravidian	Yadava	India	41	4.9%	Singh et al. 2017
	Dravidian	Lingayat	Southwest India	101	2.0%	Chennakrishnaiah et al. 2013
	Dravidian	Vokkaliga	Southwest India	102	1.0%	Chennakrishnaiah et al. 2013

Supplementary Table 11.15. Contemporary Distribution of J2a-M319

Region	Language Group	Population	Location	Sample Size	Percent J2a-M319	Reference
Mediterranean						
	Greek	Cretans	Crete	193	8.8%	King et al. 2008
	Greek	Cretans	Crete	168	5.4%	Martinez et al. 2007
	Greek	Greek Cypriots	Cyprus	629	1.1%	Voskarides et al. 2016
Western Europe						
	Germanic	Flemish	Flanders	773	0.3%	Larmuseau et al. 2014

Supplementary Table 11.16. Contemporary Distribution of J2a-L24.

Region	Language Group	Population	Location	Sample Size	Percent J2a-L24	Reference
Caucasus						
	Turkic	Nogais	Daghestan	22	14.0%	Karafet et al. 2016
	North Caucasian	Avar	Daghestan	33	3.0%	Karafet et al. 2016
Central Asia						
	Iranian	Hazara	Afghanistan	60	10.0%	Haber et al. 2012
	Iranian	Hazara	Afghanistan	77	5.2%	Di Cristofaro et al. 2013
	Iranian	Tajiks	Afghanistan	142	4.2%	Di Cristofaro et al. 2013
	Turkic	Uzbeks	Afghanistan	127	3.2%	Di Cristofaro et al. 2013
	Turkic	Turkmen	Afghanistan	74	1.4%	Di Cristofaro et al. 2013
	Iranian	Pashtuns (Pathans)	Afghanistan	87	1.2%	Di Cristofaro et al. 2013
	Iranian	Pashtuns (Pathans)	Afghanistan	190	0.5%	Lacau et al. 2012
Eastern Europe						
	Slavic	Bulgarians	Bulgaria	808	2.4%	Karachanak et al. 2013
Mediterranean						
	Greek	Greek Cypriots	Cyprus	629	7.3%	Voskarides et al. 2016
	Italic	Sardianians	Italy	236	4.7%	Di Gaetano et al. 2009
	Greek	Cretans	Crete	193	2.6%	King et al. 2008
Middle East						
	Iranian	Persians (Yazd)	Iran	46	17.0%	Grugni et al. 2012
	Iranian	Mazanderani	Iran	72	9.7%	Grugni et al. 2012
	Iranian	Baloch	Iran	24	8.3%	Grugni et al. 2012
	Iranian	Kurds	Iran	59	6.8%	Grugni et al. 2012
	Armenian	Armenians	Iran	34	5.9%	Grugni et al. 2012
	Iranian	Persians (Fars)	Iran	44	4.5%	Grugni et al. 2012

Region	Language Group	Population	Location	Sample Size	Percent J2a-L24	Reference
	Iranian	Lurs	Iran	50	3.9%	Grugni et al. 2012
	Iranian	Persians (Khorasan)	Iran	59	3.4%	Grugni et al. 2012
	Turkic	Turkmen	Iran	68	1.4%	Grugni et al. 2012
	Turkic	Turks	Turkey	523	0.4%	Cinnioglu et al. 2004
North Africa						
	Semitic	Sousse	Tunisia	220	5.9%	Fadhlaoui-Zid et al. 2015
South Asia						
	Dravidian	Brahui	Pakistan	25	4.0%	Di Cristofaro et al. 2013
	Iranian	Hazara	Pakistan	25	4.0%	Di Cristofaro et al. 2013

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Supplementary Tables for Chapter Twelve and Haplogroups L-M20 and T-M184



Supplementary Table 12.1. The Contemporary Distribution of Haplogroup L-M20.

Region	Language Group	Language Family	Population	Location	Sample Size	L-M20	Reference
Caucasus							
Armenian							
		Indo-European	Armenians Don	Russia: Rostov and Myasnikovsky Regions	92	6.5%	Balanovsky et al. 2017
		Indo-European	Armenians Erzurum	Georgia	99	3.0%	Balanovsky et al. 2017
		Indo-European	Armenians Krasnodar	Russia: Krasnodar	117	2.6%	Balanovsky et al. 2017
		Indo-European	Armenians Hemsheni	Russia: Krasnodar	89	2.3%	Balanovsky et al. 2017
		Indo-European	Armenians Adygei	Russia: Adygea	49	2.1%	Balanovsky et al. 2017
		Indo-European	Armenians	Armenia	57	1.8%	Yunusbayev et al. 2012
		Indo-European	Armenians (Eastern)	Armenia	416	1.0%	Hovhannisyan et al. 2014
Iranian							
		Indo-European	Tats	Daghestan	24	8.3%	Karafet et al. 2016
		Indo-European	North Ossetians	Russia	132	0.8%	Yunusbayev et al. 2012
Kartvelian							
		Kartvelian	Imereti	Georgia	62	3.2%	Balanovsky et al. 2017
North Caucasian							
		North Caucasian	Chechens	Russia	165	17.6%	Yunusbayev et al. 2012
		North Caucasian	Chechens	Daghestan	100	14.0%	Balanovsky et al. 2011
		North Caucasian	Chechens	Dagestan	20	10.0%	Caciagli et al. 2009
		North Caucasian	Avars	Russia	42	9.5%	Yunusbayev et al. 2012
		North Caucasian	Ingush	Russia	105	8.6%	Yunusbayev et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	L-M20	Reference
		North Caucasian	Chechens (Chechnya)	Russia	118	7.0%	Balanovsky et al. 2011
		North Caucasian	Abkhaz	Georgia	162	4.9%	Yunusbayev et al. 2012
		North Caucasian	Chamalal	Russia	27	3.7%	Yunusbayev et al. 2012
		North Caucasian	Abkhaz	Russia	58	3.4%	Balanovsky et al. 2011
		North Caucasian	Avar	Daghestan	115	3.0%	Balanovsky et al. 2011
		North Caucasian	Ingush	Russia	143	2.8%	Balanovsky et al. 2011
		North Caucasian	Adyghe	Caucasus	154	2.6%	Yunusbayev et al. 2012
		North Caucasian	Abazins	Caucasus	88	2.3%	Yunusbayev et al. 2012
		North Caucasian	Shapsugs	Russia	100	2.0%	Balanovsky et al. 2011
		North Caucasian	Chechens (Ingushetia)	Russia	112	1.7%	Balanovsky et al. 2011
		North Caucasian	Lezgians	Daghestan	81	1.2%	Balanovsky et al. 2011
		North Caucasian	Kabardin	Russia	140	0.7%	Yunusbayev et al. 2012
		North Caucasian	Cherkessians	Russia	142	0.7%	Balanovsky et al. 2011
Central Asia							
	Chinese						
		Sino-Tibetan	Dungan	Uzbekistan	31	3.0%	Zhabagin et al. 2017
	Iranian						
		Indo-European	Tajiks	Tajikistan	40	22.5%	Malyarchuk et al. 2013
		Indo-European	Pashtuns (Pathans)	Afghanistan	49	12.2%	Haber et al. 2012
		Indo-European	Pashtuns (Pathans)	Afghanistan	190	9.5%	Lacau et al. 2012
		Indo-European	Tajiks	Afghanistan	56	8.9%	Haber et al. 2012
		Indo-European	Pashtuns (Pathans)	Afghanistan	87	6.9%	Di Cristofaro et al. 2013
		Indo-European	Tajiks	Afghanistan	142	6.3%	Di Cristofaro et al. 2013
		Indo-European	Hazara	Afghanistan	77	3.9%	Di Cristofaro et al. 2013

Region	Language Group	Language Family	Population	Location	Sample Size	L-M20	Reference
		Indo-European	Hazara	Afghanistan	60	1.7%	Haber et al. 2012
	Turkic						
		Turkic	Uzbeks	Afghanistan	127	9.5%	Di Cristofaro et al. 2013
		Turkic	Uzbek	Uzbekistan (Fergana)	67	6.0%	Zhabagin et al. 2017
		Turkic	Uzbek	Uzbekistan (Xorezm)	98	5.1%	Zhabagin et al. 2017
		Turkic	Kazakh	Kazakhstan (Zhanakorgan)	94	4.3%	Zhabagin et al. 2017
		Turkic	Turkmen	Afghanistan	74	4.1%	Di Cristofaro et al. 2013
		Turkic	Uzbek	Uzbekistan (Tashkent)	52	3.9%	Zhabagin et al. 2017
		Turkic	Kyrgyz	Kyrgyzstan	132	1.5%	Di Cristofaro et al. 2013
		Turkic	Karakalpak	Uzbekistan	100	1.0%	Zhabagin et al. 2017
East Asia							
	Mon Khmer						
		Austro-Asiatic	Mon	Thailand	13	7.7%	Kutanan et al. 2020
		Austro-Asiatic	Mon	Thailand	18	5.6%	Kutanan et al. 2020
	Tai-Kadai						
		Tai Kadai	Phuan	Thailand	17	5.9%	Kutanan et al. 2020
	Turkic						
		Turkic	Uyghurs	Xingjiang, China	48	8.3%	Zhong et al. 2011
		Turkic	Uyghurs	Xingjiang, China	50	4.0%	Zhong et al. 2011
		Turkic	Uyghurs	Xingjiang, China	71	2.8%	Zhong et al. 2011
Eastern Europe							
	Slavic						
		Indo-European	Bulgarians	Bulgaria	808	0.2%	Karachanak et al. 2013
Mediterranean							

Region	Language Group	Language Family	Population	Location	Sample Size	L-M20	Reference
Greek							
		Indo-European	Greek Cypriots	Cyprus	629	1.9%	Voskarides et al. 2017
		Indo-European	Greeks (Nea Nikomedeia)	Greece	57	1.8%	King et al. 2011
Italic							
		Indo-European	Italians	Italy	884	1.5%	Boattini et al. 2013
		Indo-European	Sardinians	Sardinia	1194	0.8%	Francalacci et al. 2015
Middle East							
Armenian							
		Indo-European	Armenians (Sasun)	Turkey	104	3.9%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Western)	Turkey	148	2.0%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Salmast)	Iran	199	2.0%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Van)	Turkey	103	1.9%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Central)	Turkey	200	0.5%	Hovhannisyan et al. 2014
Iranian							
		Indo-European	Baloch	Iran	24	16.6%	Grugni et al. 2012
		Indo-European	Persians	Eastern Iran	77	9.1%	Malyarchuk et al. 2013
		Indo-European	Kurds	Western Iran	25	8.0%	Malyarchuk et al. 2013
		Indo-European	Persians Fars	Iran	44	6.8%	Grugni et al. 2012
		Indo-European	Gilak	Iran	64	4.8%	Grugni et al. 2012
		Indo-European	Persians Yazd	Iran	46	4.2%	Grugni et al. 2012
		Indo-European	Persians Khorasan	Iran	59	3.4%	Grugni et al. 2012
		Indo-European	Kurds	Iran	59	1.7%	Grugni et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	L-M20	Reference
		Indo-European	Ossetians (Iron)	Iran	230	0.9%	Balanovsky et al. 2011
		Indo-European	Ossetians (Digor)	Iran	127	0.8%	Balanovsky et al. 2011
	Kartvelian						
		Kartvelian	Laz	Turkey	36	41.7%	Balanovsky et al. 2017
	Semitic						
		Afro-Asiatic	Lebanese Druze	Lebanon	31	13.0%	Haber et al. 2016
		Afro-Asiatic	Lebanese Christians	Lebanon	52	12.0%	Haber et al. 2016
		Afro-Asiatic	Lebanese Muslims	Lebanon	43	7.0%	Haber et al. 2016
		Afro-Asiatic	Lebanese	Lebanon	914	5.3%	Zalloua et al. 2008
		Afro-Asiatic	Saudis	Saudi Arabia	157	1.9%	Abu-Amero et al. 2009
		Afro-Asiatic	Arabs	Oman	121	0.8%	Luis et al. 2004
	Turkic						
		Turkic	Turkmen	Iran	68	5.8%	Grugni et al. 2012
		Turkic	Turks	Turkey	523	4.2%	Cinnioglu et al. 2004
		Turkic	Turks (Western Anatolia)	Turkey	30	3.3%	King et al. 2011
		Turkic	Central Anatolia	Turkey	90	3.3%	King et al. 2011
		Turkic	Azerbaijani	Iran	63	3.2%	Grugni et al. 2012
		Turkic	Central Anatolia	Turkey	90	3.0%	Borkar et al. 2011
South Asia							
	Austro-Asiatic						
		Austro-Asiatic	Ho	Jharkhand	28	3.6%	Borkar et al. 2011
		Austro-Asiatic	Munda	Jharkhand	94	2.1%	Borkar et al. 2011
		Austro-Asiatic	Birhor	Jharkhand	100	2.0%	Borkar et al. 2011
		Austro-Asiatic	Santhal	Jharkhand	90	1.1%	Borkar et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	L-M20	Reference
	Dravidian						
		Dravidian	Vokkaliga	Southwest India	102	32.4%	Chennakrishnaiah et al. 2013
		Dravidian	Ambalakarar	South India	29	20.7%	Sengupta et al. 2006
		Dravidian	Vanniyar	South India	25	20.0%	Sengupta et al. 2006
		Dravidian	Lingayat	Southwest India	101	17.8%	Chennakrishnaiah et al. 2013
		Dravidian	Pallan	South India	29	17.2%	Sengupta et al. 2006
		Dravidian	Iyer	South India	29	17.2%	Sengupta et al. 2006
		Dravidian	Iyengar	South India	30	16.7%	Sengupta et al. 2006
		Dravidian	Vellalar	South India	31	16.1%	Sengupta et al. 2006
		Dravidian	Pardhan	Andra Pradesh	128	14.8%	Thanseem et al. 2006
		Dravidian	Chenchu	Andhra Pradesh	41	14.6%	Kivisild et al. 2003
		Dravidian	Irula	South India	30	10.0%	Sengupta et al. 2006
		Dravidian	Parayar	Tamil Nadu	24	8.3%	Arunkumar et al. 2012
		Dravidian	Brahui	Pakistan	25	8.0%	Di Cristofaro et al. 2013
		Dravidian	Thoda	Tamil Nadu	26	7.7%	Arunkumar et al. 2012
		Dravidian	Paravar	Tamil Nadu	27	7.4%	Arunkumar et al. 2012
		Dravidian	Brahui	Pakistan	110	7.3%	Qamar et al. 2002
		Dravidian	Kamar	Central India	30	6.7%	Sengupta et al. 2006
		Dravidian	Pallar	Tamil Nadu	51	5.9%	Arunkumar et al. 2012
		Dravidian	Vanniyar NTN	Tamil Nadu	96	4.2%	Arunkumar et al. 2012
		Dravidian	Tamil Jains	Tamil Nadu	100	4.0%	Arunkumar et al. 2012
		Dravidian	Parayar NTN	Tamil Nadu	52	3.8%	Arunkumar et al. 2012
		Dravidian	Paliyan	Tamil Nadu	95	3.2%	Arunkumar et al. 2012
		Dravidian	Naikpod	Andra Pradesh	68	2.9%	Thanseem et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	L-M20	Reference
		Dravidian	Oraon	Jharkhand	110	2.7%	Borkar et al. 2011
		Dravidian	Valayar	Tamil Nadu	95	2.1%	Arunkumar et al. 2012
		Dravidian	Piramalai Kallar	Tamil Nadu	53	1.9%	Arunkumar et al. 2012
		Dravidian	Pulayar	Tamil Nadu	63	1.6%	Arunkumar et al. 2012
		Dravidian	Maravar	Tamil Nadu	80	1.3%	Arunkumar et al. 2012
		Dravidian	Ezhava	Tamil Nadu	95	1.1%	Arunkumar et al. 2012
		Dravidian	Nadar Cape	Tamil Nadu	98	1.0%	Arunkumar et al. 2012
		Dravidian	Yadhava	Tamil Nadu	107	0.9%	Arunkumar et al. 2012
	Indo-Aryan						
		Indo-European	Kalash	Pakistan	44	25.0%	Firasat et al. 2007
		Indo-European	Kalash	Pakistan	20	25.0%	Di Cristofaro et al. 2013
		Indo-European	Kalash	Pakistan	44	25.0%	Qamar et al. 2002
		Indo-European	Oriya Brahmin	Orissa	24	20.8%	Sahoo et al. 2006
		Indo-European	Konkani Brahmins	Bombay	43	18.6%	Kivisild et al. 2003
		Indo-European	Bhils	Gujarat	22	18.2%	Sharma et al. 2009
		Indo-European	Sinhalese	Sri Lanka	39	18.0%	Kivisild et al. 2003
		Indo-European	Parsi	Pakistan	90	17.8%	Qamar et al. 2002
		Indo-European	Banjara (Lambadi)	Andhra Pradesh	35	17.1%	Kivisild et al. 2003
		Indo-European	Gujars	Kashmir	49	16.3%	Sharma et al. 2009
		Indo-European	Maratha	West India	20	15.0%	Sengupta et al. 2006
		Indo-European	Punjabi	Punjab	66	12.1%	Kivisild et al. 2003
		Indo-European	Gujarati	Bombay	29	10.3%	Kivisild et al. 2003
		Indo-European	Brahmin	Maharashtra	32	10.0%	Sharma et al. 2009
		Indo-European	Tharu	Uttar-Pradesh	164	7.9%	Chaubey et al. 2014
		Indo-European	Brahmin	Gujarat	64	7.8%	Sharma et al. 2009

Region	Language Group	Language Family	Population	Location	Sample Size	L-M20	Reference
		Indo-European	Paswan	Bihar	27	7.4%	Sharma et al. 2009
		Indo-European	Brahmin	Madhya Pradesh	42	7.1%	Sharma et al. 2009
		Indo-European	Rajput	Northern India	29	6.9%	Sengupta et al. 2006
		Indo-European	Tharu	Uttarakhand	45	6.7%	Chaubey et al. 2014
		Indo-European	Sindhi	Pakistan	122	6.6%	Qamar et al. 2002
		Indo-European	Mahadeo Koli	Maharashtra	50	6.0%	Thangaraj et al. 2010
		Indo-European	Pandits	Kashmir	51	5.9%	Sharma et al. 2009
		Indo-European	Tharu	Morang, Nepal	37	5.4%	Fornarino et al. 2009
		Indo-European	Brahmin	Himachal	30	5.3%	Sharma et al. 2009
		Indo-European	Brahmin	Bihar	38	5.3%	Sharma et al. 2009
		Indo-European	Pahariya	Jharkhand	100	5.0%	Borkar et al. 2011
		Indo-European	Dubla	Gujarat, India	42	4.8%	Khurana et al. 2014
		Indo-European	Sindhi	Pakistan	31	4.8%	Di Cristofaro et al. 2013
		Indo-European	Vadama	Tamil Nadu	63	4.8%	Arunkumar et al. 2012
		Indo-European	Dhodia	Gujarat, India	63	4.8%	Khurana et al. 2014
		Indo-European	Rajbanshi	West Bengal	45	4.4%	Borkar et al. 2011
		Indo-European	Koknasth Brahmin	West India	25	4.0%	Sengupta et al. 2006
		Indo-European	Rajbanshi	West Bengal	51	3.9%	Debnath et al. 2011
		Indo-European	Tharu	Chitwan, Nepal	57	3.5%	Fornarino et al. 2009
		Indo-European	Saharia	Madhya Pradesh	57	3.2%	Sharma et al. 2009
		Indo-European	Brahmin	Uttar Pradesh	31	3.2%	Sharma et al. 2009
		Indo-European	Chaudhari	Gujarat, India	113	2.7%	Khurana et al. 2014
		Indo-European	Thakur	Maharashtra	48	2.0%	Thangaraj et al. 2010
		Indo-European	Andh	Andra Pradesh	54	1.9%	Thanseem et al. 2006
		Indo-European	Bengali	West Bengal	54	1.9%	Debnath et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	L-M20	Reference
Iranian							
		Indo-European	Baloch	Pakistan	59	28.8%	Qamar et al. 2002
		Indo-European	Baloch	Pakistan	25	24.0%	Di Cristofaro et al. 2013
		Indo-European	Pashtuns (Pathans)	Pakistan	93	12.9%	Qamar et al. 2002
		Indo-European	Pashtuns (Pathans)	Pakistan	96	12.5%	Firasat et al. 2007
		Indo-European	Pashtuns (Pathans)	Pakistan	20	10.0%	Di Cristofaro et al. 2013
		Indo-European	Pashtuns (Pathans)	Pakistan	270	5.9%	Lee et al. 2014
Isolate (Burushaski)							
		Isolate (Burushaski)	Burusho	Pakistan	94	17.0%	Qamar et al. 2002
		Isolate (Burushaski)	Burusho	Pakistan	97	16.5%	Firasat et al. 2007
		Isolate (Burushaski)	Burusho	North Pakistan	20	15.0%	Sengupta et al. 2006
		Isolate (Burushaski)	Burusho	Pakistan	20	15.0%	Di Cristofaro et al. 2013
Tibeto-Burman							
		Sino-Tibetan	Tripuri	Bangladesh	88	7.0%	Gazi et al. 2013
		Sino-Tibetan	Marma	Bangladesh	60	5.0%	Gazi et al. 2013
Western Europe							
Germanic							
		Indo-European	Flemish	Flanders	773	0.3%	Larmuseau et al. 2014
Italic							
		Indo-European	Portuguese	Central Portugal	46	2.2%	Carvalho et al. 2008

Supplementary Table 12.2. The Contemporary Distribution of Haplogroup T-M184.

Region	Language Group	Language Family	Population	Location	Sample Size	T-M184	Reference
Caucasus							
	Armenian						
		Indo-European	Armenians Don	Russia: Rostov and Myasnikovsky Regions	92	6.5%	Balanovsky et al. 2017
		Indo-European	Armenians Erzurum	Georgia	99	3.0%	Balanovsky et al. 2017
		Indo-European	Armenians Krasnodar	Russia: Krasnodar	117	2.6%	Balanovsky et al. 2017
		Indo-European	Armenians Hemsheni	Russia: Krasnodar	89	2.3%	Balanovsky et al. 2017
		Indo-European	Armenians Adygei	Russia: Adygea	49	2.1%	Balanovsky et al. 2017
		Indo-European	Armenians	Armenia	57	1.8%	Yunusbayev et al. 2012
		Indo-European	Armenians (Eastern)	Armenia	416	1.0%	Hovhannisyan et al. 2014
	Iranian						
		Indo-European	Tats	Daghestan	24	8.3%	Karafet et al. 2016
		Indo-European	North Ossetians	Russia	132	0.8%	Yunusbayev et al. 2012
	Kartvelian						
		Kartvelian	Imereti	Georgia	62	3.2%	Balanovsky et al. 2017
	North Caucasian						
		North Caucasian	Chechens	Russia	165	17.6%	Yunusbayev et al. 2012
		North Caucasian	Chechens	Daghestan	100	14.0%	Balanovsky et al. 2011
		North Caucasian	Chechens	Dagestan	20	10.0%	Caciagli et al. 2009
		North Caucasian	Avars	Russia	42	9.5%	Yunusbayev et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	T-M184	Reference
		North Caucasian	Ingush	Russia	105	8.6%	Yunusbayev et al. 2012
		North Caucasian	Chechens (Chechnya)	Russia	118	7.0%	Balanovsky et al. 2011
		North Caucasian	Abkhaz	Georgia	162	4.9%	Yunusbayev et al. 2012
		North Caucasian	Chamalal	Russia	27	3.7%	Yunusbayev et al. 2012
		North Caucasian	Abkhaz	Russia	58	3.4%	Balanovsky et al. 2011
		North Caucasian	Avar	Daghestan	115	3.0%	Balanovsky et al. 2011
		North Caucasian	Ingush	Russia	143	2.8%	Balanovsky et al. 2011
		North Caucasian	Adyghe	Caucasus	154	2.6%	Yunusbayev et al. 2012
		North Caucasian	Abazins	Caucasus	88	2.3%	Yunusbayev et al. 2012
		North Caucasian	Shapsugs	Russia	100	2.0%	Balanovsky et al. 2011
		North Caucasian	Chechens (Ingushetia)	Russia	112	1.7%	Balanovsky et al. 2011
		North Caucasian	Lezgians	Daghestan	81	1.2%	Balanovsky et al. 2011
		North Caucasian	Kabardin	Russia	140	0.7%	Yunusbayev et al. 2012
		North Caucasian	Cherkessians	Russia	142	0.7%	Balanovsky et al. 2011
Central Asia							
	Chinese						
		Sino-Tibetan	Dungan	Uzbekistan	31	3.0%	Zhabagin et al. 2017
	Iranian						
		Indo-European	Tajiks	Tajikistan	40	22.5%	Malyarchuk et al. 2013
		Indo-European	Pashtuns (Pathans)	Afghanistan	49	12.2%	Haber et al. 2012
		Indo-European	Pashtuns (Pathans)	Afghanistan	190	9.5%	Lacau et al. 2012
		Indo-European	Tajiks	Afghanistan	56	8.9%	Haber et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	T-M184	Reference
		Indo-European	Pashtuns (Pathans)	Afghanistan	87	6.9%	Di Cristofaro et al. 2013
		Indo-European	Tajiks	Afghanistan	142	6.3%	Di Cristofaro et al. 2013
		Indo-European	Hazara	Afghanistan	77	3.9%	Di Cristofaro et al. 2013
		Indo-European	Hazara	Afghanistan	60	1.7%	Haber et al. 2012
	Turkic						
		Turkic	Uzbeks	Afghanistan	127	9.5%	Di Cristofaro et al. 2013
		Turkic	Uzbek	Uzbekistan (Fergana)	67	6.0%	Zhabagin et al. 2017
		Turkic	Uzbek	Uzbekistan (Xorezm)	98	5.1%	Zhabagin et al. 2017
		Turkic	Kazakh	Kazakhstan (Zhanakorgan)	94	4.3%	Zhabagin et al. 2017
		Turkic	Turkmen	Afghanistan	74	4.1%	Di Cristofaro et al. 2013
		Turkic	Uzbek	Uzbekistan (Tashkent)	52	3.9%	Zhabagin et al. 2017
		Turkic	Kyrgyz	Kyrgyzstan	132	1.5%	Di Cristofaro et al. 2013
		Turkic	Karakalpak	Uzbekistan	100	1.0%	Zhabagin et al. 2017
East Asia							
	Mon Khmer						
		Austro-Asiatic	Mon	Thailand	13	7.7%	Kutanan et al. 2020
		Austro-Asiatic	Mon	Thailand	18	5.6%	Kutanan et al. 2020
	Tai-Kadai						
		Tai Kadai	Phuan	Thailand	17	5.9%	Kutanan et al. 2020
	Turkic						
		Turkic	Uyghurs	Xingjiang, China	48	8.3%	Zhong et al. 2011
		Turkic	Uyghurs	Xingjiang, China	50	4.0%	Zhong et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	T-M184	Reference
		Turkic	Uyghurs	Xingjiang, China	71	2.8%	Zhong et al. 2011
Eastern Europe							
	Slavic						
		Indo-European	Bulgarians	Bulgaria	808	0.2%	Karachanak et al. 2013
Mediterranean							
	Greek						
		Indo-European	Greek Cypriots	Cyprus	629	1.9%	Voskarides et al. 2017
		Indo-European	Greeks (Nea Nikomedeia)	Greece	57	1.8%	King et al. 2011
	Italic						
		Indo-European	Italians	Italy	884	1.5%	Boattini et al. 2013
		Indo-European	Sardinians	Sardinia	1194	0.8%	Francalacci et al. 2015
Middle East							
	Armenian						
		Indo-European	Armenians (Sasun)	Turkey	104	3.9%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Western)	Turkey	148	2.0%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Salmast)	Iran	199	2.0%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Van)	Turkey	103	1.9%	Hovhannisyan et al. 2014
		Indo-European	Armenians (Central)	Turkey	200	0.5%	Hovhannisyan et al. 2014
	Iranian						
		Indo-European	Baloch	Iran	24	16.6%	Grugni et al. 2012
		Indo-European	Persians	Eastern Iran	77	9.1%	Malyarchuk et al. 2013
		Indo-European	Kurds	Western Iran	25	8.0%	Malyarchuk et al. 2013

Region	Language Group	Language Family	Population	Location	Sample Size	T-M184	Reference
		Indo-European	Persians Fars	Iran	44	6.8%	Grugni et al. 2012
		Indo-European	Gilak	Iran	64	4.8%	Grugni et al. 2012
		Indo-European	Persians Yazd	Iran	46	4.2%	Grugni et al. 2012
		Indo-European	Persians Khorasan	Iran	59	3.4%	Grugni et al. 2012
		Indo-European	Kurds	Iran	59	1.7%	Grugni et al. 2012
		Indo-European	Ossetians (Iron)	Iran	230	0.9%	Balanovsky et al. 2011
		Indo-European	Ossetians (Digor)	Iran	127	0.8%	Balanovsky et al. 2011
	Kartvelian						
		Kartvelian	Laz	Turkey	36	41.7%	Balanovsky et al. 2017
	Semitic						
		Afro-Asiatic	Lebanese Druze	Lebanon	31	13.0%	Haber et al. 2016
		Afro-Asiatic	Lebanese Christians	Lebanon	52	12.0%	Haber et al. 2016
		Afro-Asiatic	Lebanese Muslims	Lebanon	43	7.0%	Haber et al. 2016
		Afro-Asiatic	Lebanese	Lebanon	914	5.3%	Zalloua et al. 2008
		Afro-Asiatic	Saudis	Saudi Arabia	157	1.9%	Abu-Amero et al. 2009
		Afro-Asiatic	Arabs	Oman	121	0.8%	Luis et al. 2004
	Turkic						
		Turkic	Turkmen	Iran	68	5.8%	Grugni et al. 2012
		Turkic	Turks	Turkey	523	4.2%	Cinnioglu et al. 2004
		Turkic	Turks (Western Anatolia)	Turkey	30	3.3%	King et al. 2011
		Turkic	Central Anatolia	Turkey	90	3.3%	King et al. 2011
		Turkic	Azerbaijani	Iran	63	3.2%	Grugni et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	T-M184	Reference
		Turkic	Central Anatolia	Turkey	90	3.0%	Borkar et al. 2011
South Asia							
	Austro-Asiatic						
		Austro-Asiatic	Ho	Jharkhand	28	3.6%	Borkar et al. 2011
		Austro-Asiatic	Munda	Jharkhand	94	2.1%	Borkar et al. 2011
		Austro-Asiatic	Birhor	Jharkhand	100	2.0%	Borkar et al. 2011
		Austro-Asiatic	Santhal	Jharkhand	90	1.1%	Borkar et al. 2011
	Dravidian						
		Dravidian	Vokkaliga	Southwest India	102	32.4%	Chennakrishnaiah et al. 2013
		Dravidian	Ambalakarar	South India	29	20.7%	Sengupta et al. 2006
		Dravidian	Vanniyar	South India	25	20.0%	Sengupta et al. 2006
		Dravidian	Lingayat	Southwest India	101	17.8%	Chennakrishnaiah et al. 2013
		Dravidian	Pallan	South India	29	17.2%	Sengupta et al. 2006
		Dravidian	Iyer	South India	29	17.2%	Sengupta et al. 2006
		Dravidian	Iyengar	South India	30	16.7%	Sengupta et al. 2006
		Dravidian	Vellalar	South India	31	16.1%	Sengupta et al. 2006
		Dravidian	Pardhan	Andra Pradesh	128	14.8%	Thanseem et al. 2006
		Dravidian	Chenchu	Andhra Pradesh	41	14.6%	Kivisild et al. 2003
		Dravidian	Irula	South India	30	10.0%	Sengupta et al. 2006
		Dravidian	Parayar	Tamil Nadu	24	8.3%	Arunkumar et al. 2012
		Dravidian	Brahui	Pakistan	25	8.0%	Di Cristofaro et al. 2013
		Dravidian	Thoda	Tamil Nadu	26	7.7%	Arunkumar et al. 2012
		Dravidian	Paravar	Tamil Nadu	27	7.4%	Arunkumar et al. 2012
		Dravidian	Brahui	Pakistan	110	7.3%	Qamar et al. 2002
		Dravidian	Kamar	Central India	30	6.7%	Sengupta et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	T-M184	Reference
		Dravidian	Pallar	Tamil Nadu	51	5.9%	Arunkumar et al. 2012
		Dravidian	Vanniyar NTN	Tamil Nadu	96	4.2%	Arunkumar et al. 2012
		Dravidian	Tamil Jains	Tamil Nadu	100	4.0%	Arunkumar et al. 2012
		Dravidian	Parayar NTN	Tamil Nadu	52	3.8%	Arunkumar et al. 2012
		Dravidian	Paliyan	Tamil Nadu	95	3.2%	Arunkumar et al. 2012
		Dravidian	Naikpod	Andra Pradesh	68	2.9%	Thanseem et al. 2006
		Dravidian	Oraon	Jharkhand	110	2.7%	Borkar et al. 2011
		Dravidian	Valayar	Tamil Nadu	95	2.1%	Arunkumar et al. 2012
		Dravidian	Piramalai Kallar	Tamil Nadu	53	1.9%	Arunkumar et al. 2012
		Dravidian	Pulayar	Tamil Nadu	63	1.6%	Arunkumar et al. 2012
		Dravidian	Maravar	Tamil Nadu	80	1.3%	Arunkumar et al. 2012
		Dravidian	Ezhava	Tamil Nadu	95	1.1%	Arunkumar et al. 2012
		Dravidian	Nadar Cape	Tamil Nadu	98	1.0%	Arunkumar et al. 2012
		Dravidian	Yadhava	Tamil Nadu	107	0.9%	Arunkumar et al. 2012
	Indo-Aryan						
		Indo-European	Kalash	Pakistan	44	25.0%	Firasat et al. 2007
		Indo-European	Kalash	Pakistan	20	25.0%	Di Cristofaro et al. 2013
		Indo-European	Kalash	Pakistan	44	25.0%	Qamar et al. 2002
		Indo-European	Oriya Brahmin	Orissa	24	20.8%	Sahoo et al. 2006
		Indo-European	Konkani Brahmins	Bombay	43	18.6%	Kivisild et al. 2003
		Indo-European	Bhils	Gujarat	22	18.2%	Sharma et al. 2009
		Indo-European	Sinhalese	Sri Lanka	39	18.0%	Kivisild et al. 2003
		Indo-European	Parsi	Pakistan	90	17.8%	Qamar et al. 2002
		Indo-European	Banjara (Lambadi)	Andhra Pradesh	35	17.1%	Kivisild et al. 2003

Region	Language Group	Language Family	Population	Location	Sample Size	T-M184	Reference
		Indo-European	Gujars	Kashmir	49	16.3%	Sharma et al. 2009
		Indo-European	Maratha	West India	20	15.0%	Sengupta et al. 2006
		Indo-European	Punjabi	Punjab	66	12.1%	Kivisild et al. 2003
		Indo-European	Gujarati	Bombay	29	10.3%	Kivisild et al. 2003
		Indo-European	Brahmin	Maharashtra	32	10.0%	Sharma et al. 2009
		Indo-European	Tharu	Uttar-Pradesh	164	7.9%	Chaubey et al. 2014
		Indo-European	Brahmin	Gujarat	64	7.8%	Sharma et al. 2009
		Indo-European	Paswan	Bihar	27	7.4%	Sharma et al. 2009
		Indo-European	Brahmin	Madhya Pradesh	42	7.1%	Sharma et al. 2009
		Indo-European	Rajput	Northern India	29	6.9%	Sengupta et al. 2006
		Indo-European	Tharu	Uttarakhand	45	6.7%	Chaubey et al. 2014
		Indo-European	Sindhi	Pakistan	122	6.6%	Qamar et al. 2002
		Indo-European	Mahadeo Koli	Maharashtra	50	6.0%	Thangaraj et al. 2010
		Indo-European	Pandits	Kashmir	51	5.9%	Sharma et al. 2009
		Indo-European	Tharu	Morang, Nepal	37	5.4%	Fornarino et al. 2009
		Indo-European	Brahmin	Himachal	30	5.3%	Sharma et al. 2009
		Indo-European	Brahmin	Bihar	38	5.3%	Sharma et al. 2009
		Indo-European	Pahariya	Jharkhand	100	5.0%	Borkar et al. 2011
		Indo-European	Dubla	Gujarat, India	42	4.8%	Khurana et al. 2014
		Indo-European	Sindhi	Pakistan	31	4.8%	Di Cristofaro et al. 2013
		Indo-European	Vadama	Tamil Nadu	63	4.8%	Arunkumar et al. 2012
		Indo-European	Dhodia	Gujarat, India	63	4.8%	Khurana et al. 2014
		Indo-European	Rajbanshi	West Bengal	45	4.4%	Borkar et al. 2011
		Indo-European	Koknasth Brahmin	West India	25	4.0%	Sengupta et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	T-M184	Reference
		Indo-European	Rajbanshi	West Bengal	51	3.9%	Debnath et al. 2011
		Indo-European	Tharu	Chitwan, Nepal	57	3.5%	Fornarino et al. 2009
		Indo-European	Saharia	Madhya Pradesh	57	3.2%	Sharma et al. 2009
		Indo-European	Brahmin	Uttar Pradesh	31	3.2%	Sharma et al. 2009
		Indo-European	Chaudhari	Gujarat, India	113	2.7%	Khurana et al. 2014
		Indo-European	Thakur	Maharashtra	48	2.0%	Thangaraj et al. 2010
		Indo-European	Andh	Andra Pradesh	54	1.9%	Thanseem et al. 2006
		Indo-European	Bengali	West Bengal	54	1.9%	Debnath et al. 2011
Iranian							
		Indo-European	Baloch	Pakistan	59	28.8%	Qamar et al. 2002
		Indo-European	Baloch	Pakistan	25	24.0%	Di Cristofaro et al. 2013
		Indo-European	Pashtuns (Pathans)	Pakistan	93	12.9%	Qamar et al. 2002
		Indo-European	Pashtuns (Pathans)	Pakistan	96	12.5%	Firasat et al. 2007
		Indo-European	Pashtuns (Pathans)	Pakistan	20	10.0%	Di Cristofaro et al. 2013
		Indo-European	Pashtuns (Pathans)	Pakistan	270	5.9%	Lee et al. 2014
Isolate (Burushaski)							
	Isolate (Burushaski)	Burusho		Pakistan	94	17.0%	Qamar et al. 2002
	Isolate (Burushaski)	Burusho		Pakistan	97	16.5%	Firasat et al. 2007
	Isolate (Burushaski)	Burusho		North Pakistan	20	15.0%	Sengupta et al. 2006
	Isolate (Burushaski)	Burusho		Pakistan	20	15.0%	Di Cristofaro et al. 2013
Tibeto-Burman							
		Sino-Tibetan	Tripuri	Bangladesh	88	7.0%	Gazi et al. 2013

Region	Language Group	Language Family	Population	Location	Sample Size	T-M184	Reference
Western Europe		Sino-Tibetan	Marma	Bangladesh	60	5.0%	Gazi et al. 2013
	Germanic						
		Indo-European	Flemish	Flanders	773	0.3%	Larmuseau et al. 2014
	Italic						
		Indo-European	Portuguese	Central Portugal	46	2.2%	Carvalho et al. 2008

Supplementary Table 12.3. Contemporary Distribution of L1a-M27.

Region	Language Group	Language Family	Population	Location	Sample Size	L1a-M27	Reference
Caucasus							
	North Caucasian						
		North Caucasian	Cherkessians	Russia	142	0.7%	Balanovsky et al. 2011
		North Caucasian	Chechens (Ingushetia)	Russia	112	0.7%	Balanovsky et al. 2011
Central Asia							
	Iranian						
		Indo-European	Pashtuns (Pathans)	Afghanistan	87	4.6%	Di Cristofaro et al. 2013
		Indo-European	Hazara	Afghanistan	77	3.9%	Di Cristofaro et al. 2013
		Indo-European	Tajiks	Afghanistan	142	2.8%	Di Cristofaro et al. 2013
		Indo-European	Tajiks	Afghanistan	56	1.8%	Haber et al. 2012
		Indo-European	Pashtuns (Pathans)	Afghanistan	190	1.1%	Lacau et al. 2012
	Turkic						
		Turkic	Uzbeks	Afghanistan	127	4.7%	Di Cristofaro et al. 2013
		Turkic	Turkmen	Afghanistan	74	4.1%	Di Cristofaro et al. 2013
		Turkic	Kyrgyz	Kyrgyzstan	132	0.8%	Di Cristofaro et al. 2013
Mediterranean							
	Italic						
		Indo-European	Sardinians	Sardinia	1194	0.2%	Francalacci et al. 2015
Middle East							
	Iranian						
		Indo-European	Baloch	Iran	24	8.3%	Grugni et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	L1a-M27	Reference
		Indo-European	Persians Fars	Iran	44	2.3%	Grugni et al. 2012
		Indo-European	Persians Yazd	Iran	46	2.1%	Grugni et al. 2012
		Indo-European	Kurds	Iran	59	1.7%	Grugni et al. 2012
		Indo-European	Gilak	Iran	64	1.6%	Grugni et al. 2012
		Indo-European	Ossetians (Digor)	Iran	127	0.8%	Balanovsky et al. 2011
	Semitic						
		Afro-Asiatic	Lebanese Druze	Lebanon	31	10.0%	Haber et al. 2016
		Afro-Asiatic	Lebanese Muslims	Lebanon	43	7.0%	Haber et al. 2016
		Afro-Asiatic	Saudis	Saudi Arabia	157	1.3%	Abu-Amero et al. 2009
South Asia							
	Dravidian						
		Dravidian	Vokkaliga	Southwest India	102	28.4%	Chennakrishnaiah et al. 2013
		Dravidian	Ambalakarar	South India	29	20.7%	Sengupta et al. 2006
		Dravidian	Vanniyar	South India	25	20.0%	Sengupta et al. 2006
		Dravidian	Lingayat	Southwest India	101	17.8%	Chennakrishnaiah et al. 2013
		Dravidian	Iyer	South India	29	17.2%	Sengupta et al. 2006
		Dravidian	Iyengar	South India	30	16.7%	Sengupta et al. 2006
		Dravidian	Vellalar	South India	31	16.1%	Sengupta et al. 2006
		Dravidian	Chenchu	Andhra Pradesh	41	14.6%	Kivisild et al. 2003
		Dravidian	Pallan	South India	29	13.8%	Sengupta et al. 2006
		Dravidian	Irula	South India	30	10.0%	Sengupta et al. 2006
		Dravidian	Kamar	Central India	30	6.7%	Sengupta et al. 2006
		Dravidian	Pallar	Tamil Nadu	51	5.9%	Arunkumar et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	L1a-M27	Reference
		Dravidian	Parayar	Tamil Nadu	24	4.2%	Arunkumar et al. 2012
		Dravidian	Brahui	Pakistan	25	4.0%	Di Cristofaro et al. 2013
		Dravidian	Thoda	Tamil Nadu	26	3.9%	Arunkumar et al. 2012
		Dravidian	Paliyan	Tamil Nadu	95	3.2%	Arunkumar et al. 2012
		Dravidian	Valayar	Tamil Nadu	95	2.1%	Arunkumar et al. 2012
		Dravidian	Vanniyar NTN	Tamil Nadu	96	2.1%	Arunkumar et al. 2012
		Dravidian	Tamil Jains	Tamil Nadu	100	2.0%	Arunkumar et al. 2012
		Dravidian	Parayar NTN	Tamil Nadu	52	1.9%	Arunkumar et al. 2012
		Dravidian	Piramalai Kallar	Tamil Nadu	53	1.9%	Arunkumar et al. 2012
		Dravidian	Pulayar	Tamil Nadu	63	1.6%	Arunkumar et al. 2012
		Dravidian	Ezhava	Tamil Nadu	95	1.1%	Arunkumar et al. 2012
Indo-Aryan							
		Indo-European	Konkani Brahmins	Bombay	43	18.6%	Kivisild et al. 2003
		Indo-European	Sinhalese	Sri Lanka	39	18.0%	Kivisild et al. 2003
		Indo-European	Banjara (Lambadi)	Andhra Pradesh	35	17.1%	Kivisild et al. 2003
		Indo-European	Maratha	West India	20	15.0%	Sengupta et al. 2006
		Indo-European	Punjabi	Punjab	66	12.1%	Kivisild et al. 2003
		Indo-European	Gujarati	Bombay	29	10.3%	Kivisild et al. 2003
		Indo-European	Tharu	Uttar-Pradesh	164	7.9%	Chaubey et al. 2014
		Indo-European	Tharu	Uttarakhand	45	6.7%	Chaubey et al. 2014
		Indo-European	Tharu	Morang, Nepal	37	5.4%	Fornarino et al. 2009
		Indo-European	Dhodia	Gujarat, India	63	4.8%	Khurana et al. 2014
		Indo-European	Dubla	Gujarat, India	42	4.8%	Khurana et al. 2014
		Indo-European	Oriya Brahmin	Orissa	24	4.2%	Sahoo et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	L1a-M27	Reference
		Indo-European	Koknasth Brahmin	West India	25	4.0%	Sengupta et al. 2006
		Indo-European	Tharu	Chitwan, Nepal	57	3.5%	Fornarino et al. 2009
		Indo-European	Chaudhari	Gujarat, India	113	2.7%	Khurana et al. 2014
		Indo-European	Rajbanshi	West Bengal	51	2.0%	Debnath et al. 2011
		Indo-European	Bengali	West Bengal	54	1.9%	Debnath et al. 2011
		Indo-European	Vadama	Tamil Nadu	63	1.6%	Arunkumar et al. 2012
Iranian							
		Indo-European	Baloch	Pakistan	25	20.0%	Di Cristofaro et al. 2013
		Indo-European	Pashtuns (Pathans)	Pakistan	96	5.2%	Firasat et al. 2007
		Indo-European	Pashtuns (Pathans)	Pakistan	20	5.0%	Di Cristofaro et al. 2013
Western Europe							
Germanic							
		Indo-European	Flemish	Flanders	773	0.1%	Larmuseau et al. 2014

Supplementary Table 12.4. Contemporary Distribution of L1a-M357.

Region	Language Group	Language Family	Population	Location	Sample Size	L1a-M357	Reference
Caucasus							
	Iranian						
		Indo-European	Tats	Daghestan	24	8.3%	Karafet et al. 2016
	North Caucasian						
		North Caucasian	Chechens	Russia	165	15.8%	Yunusbayev et al. 2012
		North Caucasian	Chechens	Daghestan	100	14.0%	Balanovsky et al. 2011
		North Caucasian	Ingush	Russia	105	8.6%	Yunusbayev et al. 2012
		North Caucasian	Chechens (Chechnya)	Russia	118	7.0%	Balanovsky et al. 2011
		North Caucasian	Ingush	Russia	143	2.8%	Balanovsky et al. 2011
		North Caucasian	Chechens (Ingushetia)	Russia	112	1.0%	Balanovsky et al. 2011
		North Caucasian	Kabardin	Russia	140	0.7%	Yunusbayev et al. 2012
Central Asia							
	Iranian						
		Indo-European	Pashtuns (Pathans)	Afghanistan	49	12.2%	Haber et al. 2012
		Indo-European	Pashtuns (Pathans)	Afghanistan	190	7.9%	Lacau et al. 2012
		Indo-European	Tajiks	Afghanistan	56	5.4%	Haber et al. 2012
		Indo-European	Tajiks	Afghanistan	142	3.5%	Di Cristofaro et al. 2013
		Indo-European	Hazara	Afghanistan	60	1.7%	Haber et al. 2012
		Indo-European	Pashtuns (Pathans)	Afghanistan	87	1.2%	Di Cristofaro et al. 2013

Region	Language Group	Language Family	Population	Location	Sample Size	L1a-M357	Reference
Turkic							
		Turkic	Uzbeks	Afghanistan	127	3.9%	Di Cristofaro et al. 2013
		Turkic	Kyrgyz	Kyrgyzstan	132	0.8%	Di Cristofaro et al. 2013
East Asia							
Mon Khmer							
		Austro-Asiatic	Mon	Thailand	18	5.6%	Kutanan et al. 2020
Middle East							
Iranian							
		Indo-European	Baloch	Iran	24	8.3%	Grugni et al. 2012
		Indo-European	Persians Fars	Iran	44	4.5%	Grugni et al. 2012
		Indo-European	Persians Khorasan	Iran	59	3.4%	Grugni et al. 2012
		Indo-European	Persians Yazd	Iran	46	2.1%	Grugni et al. 2012
		Indo-European	Gilak	Iran	64	1.6%	Grugni et al. 2012
Semitic							
		Afro-Asiatic	Saudis	Saudi Arabia	157	0.6%	Abu-Amero et al. 2009
Turkic							
		Turkic	Turkmen	Iran	68	5.8%	Grugni et al. 2012
		Turkic	Azerbaijani	Iran	63	1.6%	Grugni et al. 2012
South Asia							
Dravidian							
		Dravidian	Paravar	Tamil Nadu	27	7.4%	Arunkumar et al. 2012
		Dravidian	Parayar	Tamil Nadu	24	4.2%	Arunkumar et al. 2012
		Dravidian	Brahui	Pakistan	25	4.0%	Di Cristofaro et al. 2013
		Dravidian	Vokkaliga	Southwest India	102	3.9%	Chennakrishnaiah et al. 2013

Region	Language Group	Language Family	Population	Location	Sample Size	L1a-M357	Reference
		Dravidian	Thoda	Tamil Nadu	26	3.9%	Arunkumar et al. 2012
		Dravidian	Pallan	South India	29	3.5%	Sengupta et al. 2006
		Dravidian	Vanniyar NTN	Tamil Nadu	96	2.1%	Arunkumar et al. 2012
		Dravidian	Tamil Jains	Tamil Nadu	100	2.0%	Arunkumar et al. 2012
		Dravidian	Parayar NTN	Tamil Nadu	52	1.9%	Arunkumar et al. 2012
		Dravidian	Maravar	Tamil Nadu	80	1.3%	Arunkumar et al. 2012
		Dravidian	Nadar Cape	Tamil Nadu	98	1.0%	Arunkumar et al. 2012
		Dravidian	Yadhava	Tamil Nadu	107	0.9%	Arunkumar et al. 2012
	Indo-Aryan						
		Indo-European	Kalash	Pakistan	20	25.0%	Di Cristofaro et al. 2013
		Indo-European	Kalash	Pakistan	44	22.7%	Firasat et al. 2007
		Indo-European	Rajput	Northern India	29	6.9%	Sengupta et al. 2006
		Indo-European	Sindhi	Pakistan	31	4.8%	Di Cristofaro et al. 2013
		Indo-European	Vadama	Tamil Nadu	63	3.2%	Arunkumar et al. 2012
	Iranian						
		Indo-European	Pashtuns (Pathans)	Pakistan	96	7.3%	Firasat et al. 2007
		Indo-European	Pashtuns (Pathans)	Pakistan	20	5.0%	Di Cristofaro et al. 2013
		Indo-European	Baloch	Pakistan	25	4.0%	Di Cristofaro et al. 2013
	Isolate (Burushaski)						
		Isolate (Burushaski)	Burusho	Pakistan	20	15.0%	Di Cristofaro et al. 2013
		Isolate (Burushaski)	Burusho	North Pakistan	20	15.0%	Sengupta et al. 2006
		Isolate (Burushaski)	Burusho	Pakistan	97	12.4%	Firasat et al. 2007

Supplementary Table 12.5. The Contemporary Distribution of L1b-M317.

Region	Language Group	Language Family	Population	Location	Sample Size	L1b-M317	Reference
Caucasus							
	Armenian						
		Indo-European	Armenians Don	Russia: Rostov and Myasnikovsky Regions	92	6.5%	Balanovsky et al. 2017
		Indo-European	Armenians Erzurum	Georgia	99	3.0%	Balanovsky et al. 2017
		Indo-European	Armenians Krasnodar	Russia: Krasnodar	117	2.6%	Balanovsky et al. 2017
		Indo-European	Armenians Hemsheni	Russia: Krasnodar	89	2.3%	Balanovsky et al. 2017
		Indo-European	Armenians Adygei	Russia: Adygea	49	2.1%	Balanovsky et al. 2017
		Indo-European	Armenians	Armenia	57	1.8%	Yunusbayev et al. 2012
	Iranian						
		Indo-European	North Ossetians	Russia	132	0.8%	Yunusbayev et al. 2012
	Kartvelian						
		Kartvelian	Imereti	Georgia	62	3.2%	Balanovsky et al. 2017
	North Caucasian						
		North Caucasian	Avars	Russia	42	9.5%	Yunusbayev et al. 2012
		North Caucasian	Abkhaz	Georgia	162	4.9%	Yunusbayev et al. 2012
		North Caucasian	Chamalal	Russia	27	3.7%	Yunusbayev et al. 2012
		North Caucasian	Abkhaz	Russia	58	3.4%	Balanovsky et al. 2011
		North Caucasian	Avar	Daghestan	115	3.0%	Balanovsky et al. 2011
		North Caucasian	Abazins	Caucasus	88	2.3%	Yunusbayev et al. 2012
		North Caucasian	Adyghe	Caucasus	154	2.0%	Yunusbayev et al. 2012
		North Caucasian	Chechens	Russia	165	1.8%	Yunusbayev et al. 2012
		North Caucasian	Lezgians	Daghestan	81	1.2%	Balanovsky et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	L1b-M317	Reference
Central Asia							
	Iranian						
		Indo-European	Tajiks	Afghanistan	56	1.8%	Haber et al. 2012
		Indo-European	Pashtuns (Pathans)	Afghanistan	87	1.2%	Di Cristofaro et al. 2013
	Turkic						
		Turkic	Uzbeks	Afghanistan	127	0.8%	Di Cristofaro et al. 2013
Middle East							
	Iranian						
		Indo-European	Ossetians (Iron)	Iran	230	0.9%	Balanovsky et al. 2011
	Kartvelian						
		Kartvelian	Laz	Turkey	36	41.7%	Balanovsky et al. 2017
Western Europe							
	Germanic						
		Indo-European	Flemish	Flanders	773	0.1%	Larmuseau et al. 2014

Supplementary Table 12.6. Contemporary Distribution of T1a-M70.

Region	Language Group	Language Family	Population	Location	Sample Size	T1a-M70	Reference
Caucasus							
	North Caucasian						
		North Caucasian	Avars	Russia	42	4.8%	Yunusbayev et al. 2012
		North Caucasian	Lezgians	Daghestan	81	2.5%	Balanovsky et al. 2011
		North Caucasian	Andis	Russia	49	2.0%	Yunusbayev et al. 2012
		North Caucasian	Abkhaz	Russia	58	1.7%	Balanovsky et al. 2011
		North Caucasian	Kabardin	Russia	140	0.7%	Yunusbayev et al. 2012
		North Caucasian	Chechens (Ingushetia)	Russia	112	0.7%	Balanovsky et al. 2011
		North Caucasian	Cherkessians	Russia	142	0.7%	Balanovsky et al. 2011
		North Caucasian	Abkhaz	Georgia	162	0.6%	Yunusbayev et al. 2012
	Turkic						
		Turkic	Karachays	Russia	69	2.9%	Yunusbayev et al. 2012
		Turkic	Kumyks	Russia	73	1.4%	Yunusbayev et al. 2012
		Turkic	Nogais, Kuban	Russia	87	1.2%	Yunusbayev et al. 2012
Central Asia							
	Chinese						
		Sino-Tibetan	Dungan	Uzbekistan	31	3.0%	Zhabagin et al. 2017
	Iranian						
		Indo-European	Tajiks	Afghanistan	56	3.6%	Haber et al. 2012
	Turkic						
		Turkic	Kazakh	Kazakhstan (Zhanakorgan)	94	1.0%	Zhabagin et al. 2017

Region	Language Group	Language Family	Population	Location	Sample Size	T1a-M70	Reference
East Asia							
	Turkic						
		Turkic	Uyghurs	Xingjiang, China	48	2.1%	Zhong et al. 2011
Eastern Europe							
	Slavic						
		Indo-European	Bulgarians	Bulgaria	808	1.6%	Karachanak et al. 2013
		Indo-European	Slovaks	Slovakia	164	0.6%	Rebala et al. 2013
	Turkic						
		Turkic	Gagauz	Moldova	89	3.4%	Varzari et al. 2009
Mediterranean							
	Greek						
		Indo-European	Greeks	Smyrna, Greece	58	3.5%	King et al. 2011
		Indo-European	Greeks	Phokaia, Greece	31	3.2%	King et al. 2011
		Indo-European	Greeks (Nea Nikomedeia)	Greece	57	1.8%	King et al. 2011
		Indo-European	Greeks	Lerna/Franchthi Cave, Greece	57	1.8%	King et al. 2011
		Indo-European	Greeks (Sesklo/Dimini)	Greece	57	1.8%	King et al. 2011
	Italic						
		Indo-European	Italians	Italy	884	1.6%	Boattini et al. 2013
Middle East							
	Iranian						
		Indo-European	Kurds	Iran	59	8.5%	Grugni et al. 2012
		Indo-European	Persians Fars	Iran	44	6.8%	Grugni et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	T1a-M70	Reference
		Indo-European	Persians Yazd	Iran	46	6.4%	Grugni et al. 2012
		Indo-European	Persians Khorasan	Iran	59	5.1%	Grugni et al. 2012
		Indo-European	Persians	Eastern Iran	77	3.9%	Malyarchuk et al. 2013
		Indo-European	Ossetians (Digor)	Iran	127	0.8%	Balanovsky et al. 2011
	Semitic						
		Afro-Asiatic	Assyrians	Iran	39	10.3%	Grugni et al. 2012
		Afro-Asiatic	Arabs	Oman	121	6.6%	Luis et al. 2004
		Afro-Asiatic	Arabs	Egypt	147	5.4%	Luis et al. 2004
		Afro-Asiatic	Saudis	Saudi Arabia	157	5.1%	Abu-Amero et al. 2009
		Afro-Asiatic	Lebanese	Lebanon	914	4.7%	Zalloua et al. 2008
	Turkic						
		Turkic	Azerbaijani	Iran	63	7.9%	Grugni et al. 2012
		Turkic	Central Anatolia	Turkey	90	3.3%	King et al. 2011
		Turkic	Turks (Western Anatolia)	Turkey	30	3.3%	King et al. 2011
		Turkic	Turks	Turkey	33	3.0%	King et al. 2011
		Turkic	Turks	Turkey	523	2.5%	Cinnioglu et al. 2004
		Turkic	Turks (Northwest Anatolia)	Turkey	52	1.9%	King et al. 2011
		Turkic	Turkmen	Iran	68	1.4%	Grugni et al. 2012
North Africa							
	Cushitic						
		Afro-Asiatic	Oromo	Sudan	78	5.1%	Hassan et al. 2008
	Semitic						

Region	Language Group	Language Family	Population	Location	Sample Size	T1a-M70	Reference
		Afro-Asiatic	Amhara	Sudan	48	4.2%	Hassan et al. 2008
South Asia							
	Dravidian						
		Dravidian	Gond	Uttar Pradesh	38	10.8%	Sharma et al. 2009
		Dravidian	Gond	Madhya Pradesh	31	6.3%	Sharma et al. 2009
	Indo-Aryan						
		Indo-European	Brahmin	Bihar	38	13.2%	Sharma et al. 2009
		Indo-European	Pandits	Kashmir	51	9.8%	Sharma et al. 2009
		Indo-European	Gujars	Kashmir	49	8.2%	Sharma et al. 2009
		Indo-European	Brahmin	Maharashtra	32	3.3%	Sharma et al. 2009
		Indo-European	Brahmin	Gujarat	64	3.1%	Sharma et al. 2009
		Indo-European	Chitpavan Brahmin	Western India	66	3.0%	Gaikwad and Kashyap 2005
	Iranian						
		Indo-European	Pashtuns (Pathans)	Pakistan	96	1.0%	Firasat et al. 2007
Sub-Saharan Africa							
	Niger-Congo						
		Niger-Congo	Wairak	Tanzania	43	11.6%	Luis et al. 2004
	Nilo-Saharan						
		Nilo-Saharan	Ng'arkarimojong	Uganda	118	0.9%	Gomes et al. 2011
Western Europe							
	Germanic						

Region	Language Group	Language Family	Population	Location	Sample Size	T1a-M70	Reference
		Indo-European	Germans	Bavaria, Germany	218	0.9%	Rebala et al. 2013
	<i>Italic</i>	Indo-European	Germans	Mecklenburg, Germany	131	0.8%	Rebala et al. 2013
		Indo-European	Portuguese	Central Portugal	46	4.3%	Carvalho et al. 2008
		Indo-European	Iberians	Iberia	559	2.9%	Flores et al. 2004
		Indo-European	French	France	558	1.6%	Ramos-Luis et al. 2014
		Indo-European	Iberians	Iberia	1882	1.5%	Santos et al. 2014

Supplementary Table 12.7. Distribution of Ancient L-M20 Mutations.

Region	Master ID	Culture 2	Country	Location	Death	Mutation	Reference
Caucasus							
	I1634	Copper Age	Armenia	Areni 1	6145	L1a-M27	Lazaridis et al. 2016; Reich Dataset V42.4 (2020)
	I1632	Copper Age	Armenia	Areni 1	6065	L1a-M27	Lazaridis et al. 2016; Reich Dataset V42.4 (2020)
	I1407	Copper Age	Armenia	Areni 1	5875	L1a-M27	Lazaridis et al. 2016; Reich Dataset V42.4 (2020)
	MK5004	Bronze Age	Russia	Piedmont, Mar'inskaja 5	5150	L-M20	Wang et al. 2019; Reich Dataset V42.4 (2020)
	MK5001	Bronze Age	Russia	Piedmont, Mar'inskaja 5	5150	L-M20	Wang et al. 2019; Reich Dataset V42.4 (2020)
Central Asia							
	I5604	Bronze Age	Uzbekistan	Bustan	3739	L1a-M2481	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I4285	Bronze Age	Uzbekistan	Sappali Tepe	3717	L1a-M2481	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
Eastern Europe							
	I11131	Bronze Age	Russia	Sinjucha, Kuban steppe	5173	L1-M22	Wang et al. 2019; Reich Dataset V42.4 (2020)
Middle East							
	I11462	Bronze Age	Iran	Seistan, Shahr-i Sokhta	4846	L1a-M2481	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)

Region	Master ID	Culture 2	Country	Location	Death	Mutation	Reference
South Asia	I2923	Copper Age	Iran	Tepe Hissar	4707	L2-L595	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	ALA084	Bronze Age	Turkey	Alalakh	3556	L2-L595	Skourtanioti et al. 2020
	I10974	Iron Age	Pakistan	Swat Valley, Loebanr	2905	L1a-M2481	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I12988	Iron Age	Pakistan	Swat Valley, Loebanr	2850	L1a-M2481	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I10001	Iron Age	Pakistan	Swat Valley, Loebanr	2850	L1a-M2481	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I10000	Iron Age	Pakistan	Swat Valley, Loebanr	2850	L1a2-M357	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I12475	Iron Age	Pakistan	Swat Valley, Katelai	2850	L1a-M2481	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I12445	Iron Age	Pakistan	Swat Valley, Katelai	2850	L1a-M2481	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I12459	Iron Age	Pakistan	Swat Valley, Loebanr	2850	L-M20	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I13222	Iron Age	Pakistan	Swat Valley, Loebanr	2850	L1a2-M357	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I13223	Iron Age	Pakistan	Swat Valley, Loebanr	2850	L1a-M2481	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I10523	Iron Age	Pakistan	Swat Valley, Katelai	2850	L1a2-M357	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)

Region	Master ID	Culture 2	Country	Location	Death	Mutation	Reference
	I6555	Iron Age	Pakistan	Swat Valley, Loebanr	2813	L1a-M2481	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I6554	Iron Age	Pakistan	Swat Valley, Loebanr	2764	L1a-M2481	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)

Supplementary Table 12.8. Distribution of Ancient T-M184 Mutations.

Region	Master ID	Culture 2	Country	Location	Death	Mutation	Reference
Central Asia	I1781	Bronze Age	Turkmenistan	Gonur	3841	T-M184	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
Eastern Europe	I0700	Neolithic	Bulgaria	Malak Preslavets	7934	T1a-L162	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	I1108	Neolithic	Bulgaria	Malak Preslavets	7875	T1a-L162	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Middle East	I1707	Neolithic	Jordan	'Ain Ghazal	9582	T-M184	Lazaridis et al. 2016; Reich Dataset V42.4 (2020)
	I1180	Copper Age	Israel	Upper Galilee, Pki'in	5950	T1a-L162	Harney et al. 2018; Reich Dataset V42.4 (2020)
	I1155	Copper Age	Israel	Upper Galilee, Pki'in	5950	T1a-L162	Harney et al. 2018; Reich Dataset V42.4 (2020)
	I1172	Copper Age	Israel	Upper Galilee, Pki'in	5950	T1a-L162	Harney et al. 2018; Reich Dataset V42.4 (2020)
	I1170	Copper Age	Israel	Upper Galilee, Pki'in	5950	T1a-L162	Harney et al. 2018; Reich Dataset V42.4 (2020)
	I1178	Copper Age	Israel	Upper Galilee, Pki'in	5950	T1a-L162	Harney et al. 2018; Reich Dataset V42.4 (2020)
	I1160	Copper Age	Israel	Upper Galilee, Pki'in	5950	T1a-L162	Harney et al. 2018; Reich Dataset V42.4 (2020)
	I1166	Copper Age	Israel	Upper Galilee, Pki'in	5950	T1a-L162	Harney et al. 2018; Reich Dataset V42.4 (2020)
	I1165	Copper Age	Israel	Upper Galilee, Pki'in	5950	T1a-L162	Harney et al. 2018; Reich Dataset V42.4 (2020)

Region	Master ID	Culture 2	Country	Location	Death	Mutation	Reference
	I2512	Copper Age	Iran	Tepe Hissar	4846	T-M184	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	I2514	Copper Age	Iran	Tepe Hissar	4341	T1a-M70	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	ALA015	Bronze Age	Turkey	Alalakh	3566	T1a-L162	Skourtanioti et al. 2020
North Africa							
	KEB.6	African Neolithic	Morocco	Kelif el Boroud	5650	T-M184	Fregel et al. 2018; Reich Dataset V42.4 (2020)
Western Europe							
	I0797	Neolithic	Germany	Karsdorf	7125	T1a-M70	Mathieson et al. 2015; Reich Dataset V42.4 (2020)

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Supplementary Tables for Chapter Thirteen and Paragroup KR-M526.



Supplementary Table 13.1. Frequency Data Reported as KR-M526*.

Region	Language Group	Language Family	Population	Location	Sample Size	KR-M526*	Reference
Australia							
	Australian						
		Australian					
			Aboriginal Australians	Queensland	129	15.5%	Nagle et al. 2016
			Aboriginal Australians	South Australia	265	14.3%	Nagle et al. 2016
			Aboriginal Australians	Victoria	186	8.6%	Nagle et al. 2016
			Aboriginal Australians	Northern Territory	77	6.5%	Nagle et al. 2016
Island Southeast Asia							
	Malayo-Polynesian						
		Austronesian					
			Ere-Kele	Admiralty Islands	14	57.1%	Kayser et al. 2008
			Saposa	Bougainville	26	53.9%	Scheinfeldt et al. 2006
			Lele	Admiralty Islands	23	43.5%	Kayser et al. 2008
			Mainland (eastern tip)	Papua New Guinea	24	41.7%	Oven et al. 2014
			Normanby	Papua New Guinea	27	40.7%	Oven et al. 2014
			Wandamen	Northwest New Guinea	10	40.0%	Mona et al. 2007
			Sudest	Papua New Guinea	38	39.5%	Oven et al. 2014
			Fergusson	Papua New Guinea	35	37.1%	Oven et al. 2014
			Nali	Admiralty Islands	19	36.8%	Kayser et al. 2008

Region	Language Group	Language Family	Population	Location	Sample Size	KR-M526*	Reference
			Teop	Bougainville	18	33.3%	Scheinfeldt et al. 2006
			Kove	PNG, West New Britain	24	33.3%	Scheinfeldt et al. 2006
			Negritos	Philippines	180	32.2%	Delfin et al. 2011
			Airara	Papua New Guinea	32	28.1%	Oven et al. 2014
			Mengen	PNG, West New Britain	23	26.1%	Scheinfeldt et al. 2006
			Trobriand Islands	Papua New Guinea	60	25.0%	Oven et al. 2014
			Andra-Hus	Admiralty Islands	20	25.0%	Kayser et al. 2008
			Nalik	PNG, New Ireland	17	23.5%	Scheinfeldt et al. 2006
			Mamusi	PNG, West New Britain	43	23.3%	Scheinfeldt et al. 2006
			Trobriand Islands	Papua New Guinea	53	22.6%	Kayser et al. 2006
			Nakanai	PNG, West New Britain	36	22.2%	Scheinfeldt et al. 2006
			East Timor	Eastern Indonesia	33	21.2%	Mona et al. 2009, Mona et al. 2011
			Madak	PNG, New Ireland	19	21.1%	Scheinfeldt et al. 2006
			Tolai	PNG, East New Britain	49	20.4%	Scheinfeldt et al. 2006
			Maluccas	Eastern Indonesia	30	16.7%	Karafet et al. 2010
			Solor	Eastern Indonesia	43	16.3%	Mona et al. 2009, Mona et al. 2011
			Nyindrou	Admiralty Islands	17	11.8%	Kayser et al. 2008

Region	Language Group	Language Family	Population	Location	Sample Size	KR-M526*	Reference
			Lavongai	PNG, New Hanover	43	11.6%	Scheinfeldt et al. 2006
			Kurti	Admiralty Islands	18	11.1%	Kayser et al. 2008
			Biak	Northwest New Guinea	10	10.0%	Mona et al. 2007
			Tigak	PNG, New Ireland	21	9.5%	Scheinfeldt et al. 2006
			Titan	Admiralty Islands	21	9.5%	Kayser et al. 2008
			Seimat-Wuvulu	Admiralty Islands	11	9.1%	Kayser et al. 2008
			Batak	Palawan, Philippines	22	9.1%	Scholes et al. 2011
			Flores	Eastern Indonesia	71	8.5%	Mona et al. 2009, Mona et al. 2011
			Non-Negritos	Philippines	210	8.1%	Delfin et al. 2011
			Sulawesi	Eastern Indonesia	54	7.4%	Karafet et al. 2010
			Melamela	PNG, West New Britain	14	7.1%	Scheinfeldt et al. 2006
			Notsi	PNG, New Ireland	14	7.1%	Scheinfeldt et al. 2006
			Flores	Eastern Indonesia	394	6.1%	Karafet et al. 2010
			Sumba	Eastern Indonesia	350	4.0%	Karafet et al. 2010
			Lembata	Eastern Indonesia	92	3.3%	Karafet et al. 2010
			Lembata	Eastern Indonesia	31	3.2%	Mona et al. 2009, Mona et al. 2011
			Adonara	Eastern Indonesia	96	2.1%	Mona et al. 2009, Mona et al. 2011

Papuan

East Bird's Head-Sentani

Region	Language Group	Language Family	Population	Location	Sample Size	KR-M526*	Reference
			Moskona	Northwest New Guinea	10	50.0%	Mona et al. 2007
			Mantion	Northwest New Guinea	11	18.2%	Mona et al. 2007
		East New Britain					
			Kaket (Baining)	PNG, East New Britain	39	5.1%	Scheinfeldt et al. 2006
			Mali (Baining)	PNG, East New Britain	24	4.2%	Scheinfeldt et al. 2006
		Isolate					
			Sulka	PNG, East New Britain	33	51.5%	Scheinfeldt et al. 2006
			Kuot	PNG, New Ireland	32	15.6%	Scheinfeldt et al. 2006
			Hatam	Northwest New Guinea	12	8.3%	Mona et al. 2007
		Maybrat					
			Karon Dori	Northwest New Guinea	22	36.4%	Mona et al. 2007
			Maibrat	Northwest New Guinea	24	25.0%	Mona et al. 2007
		North Bougainville					
			Aita	Bougainville	18	16.7%	Scheinfeldt et al. 2006
		Trans-New Guinea					
			Alor	Eastern Indonesia	23	34.8%	Mona et al. 2009, Mona et al. 2011
			Alor	Eastern Indonesia	28	32.1%	Karafet et al. 2010

Region	Language Group	Language Family	Population	Location	Sample Size	KR-M526*	Reference
			Baham	Northwest New Guinea	24	12.5%	Mona et al. 2007
			Highlands	Papua New Guinea	31	6.5%	Kayser et al. 2006
			Asmat	Western New Guinea	20	5.0%	Kayser et al. 2003
			Citak	Western New Guinea	28	3.6%	Kayser et al. 2003
		Yele-West New Britain					
			Rossel Islanders	Papua New Guinea	80	33.8%	Oven et al. 2014
			Ata	PNG, West New Britain	45	28.9%	Scheinfeldt et al. 2006
			Anem	PNG, West New Britain	34	14.7%	Scheinfeldt et al. 2006
Oceania	Malayo-Polynesian	Austronesian					
			Tuvalu	Tuvalu	100	36.0%	Kayser et al. 2006
			Fijians	Fiji	107	25.2%	Kayser et al. 2006
			Makira	Solomon Islands	39	17.9%	Delfin et al. 2012
			Gela	Solomon Islands	47	17.0%	Delfin et al. 2012
			East Futunans	East Futuna	50	14.0%	Kayser et al. 2006
			Maori	New Zealand	48	8.0%	Hudjashov et al. 2018
			Isabel	Solomon Islands	53	7.5%	Delfin et al. 2012
			Ontong Java	Solomon Islands	32	6.3%	Delfin et al. 2012
			Guadalcanal	Solomon Islands	53	5.7%	Delfin et al. 2012
			Malaita	Solomon Islands	98	5.1%	Delfin et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	KR-M526*	Reference
			Manua	Samoa Archipelago	21	4.8%	Mirabal et al. 2012
			Cook Islanders	Cook Island	77	3.9%	Kayser et al. 2006
			Tongans	Tonga	29	3.5%	Kayser et al. 2006
			Samoans	Samoa	62	3.2%	Kayser et al. 2006
	Papuan						
		Central Solomons					
			Western Province	Solomon Islands	32	59.4%	Cox and Lahr 2006
			Savo	Solomon Islands	30	13.3%	Delfin et al. 2012
			Russell Islanders	Solomon Islands	32	9.4%	Delfin et al. 2012
			Vella Lavella	Solomon Islands	44	6.8%	Delfin et al. 2012

Supplementary Table 13.2. Frequency Data Reported as SM-P399*.

Region	Language Group	Lang Family	Population	Location	Sample Size	SM-P399	Reference
Island Southeast Asia							
	Malayo-Polynesian						
		Austronesian					
			Umaklaran	West Timor, Indonesia	41	19.5%	Tumonggor et al. 2014
			Kamanasa	West Timor, Indonesia	62	19.4%	Tumonggor et al. 2014
			Laran	West Timor, Indonesia	50	14.0%	Tumonggor et al. 2014
			Umanen Lawalu	West Timor, Indonesia	49	10.2%	Tumonggor et al. 2014
			Timor	Indonesia	509	10.2%	Karafet et al. 2015
			Besikama	West Timor, Indonesia	42	9.5%	Tumonggor et al. 2014
			Raimanawe	West Timor, Indonesia	50	8.0%	Tumonggor et al. 2014
			Kletek Wefatuk	West Timor, Indonesia	15	6.7%	Tumonggor et al. 2014
			Kletek Rainen	West Timor, Indonesia	17	5.9%	Tumonggor et al. 2014
			Kakaniuk	West Timor, Indonesia	47	4.3%	Tumonggor et al. 2014
			Fatuketi	West Timor, Indonesia	35	2.9%	Tumonggor et al. 2014
	Papuan						
		Trans-New Guinea					

Region	Language Group	Lang Family	Population	Location	Sample Size	SM-P399	Reference
			Tialai	West Timor, Indonesia	24	16.7%	Tumonggor et al. 2014
			Pantar	Indonesia	26	3.8%	Karafet et al. 2015

Supplementary Table 13.3. Frequency Data Reported as P-P295*.

Region	Language Group	Language Family	Population	Location	Sample Size	P-P295*	Reference
Island Southeast Asia							
	Malayo-Polynesian						
		Austronesian	Aeta	Philippines	25	28.0%	Karafet et al. 2015
		Austronesian	Kakaniuk	West Timor, Indonesia	47	25.5%	Tumonggor et al. 2014
		Austronesian	Umaklaran	West Timor, Indonesia	41	19.5%	Tumonggor et al. 2014
		Austronesian	Raimanawe	West Timor, Indonesia	50	18.0%	Tumonggor et al. 2014
		Austronesian	Kateri	West Timor, Indonesia	50	14.0%	Tumonggor et al. 2014
		Austronesian	Timor	Indonesia	509	10.8%	Karafet et al. 2015
		Austronesian	Umanen Lawalu	West Timor, Indonesia	49	10.2%	Tumonggor et al. 2014
		Austronesian	Laran	West Timor, Indonesia	50	10.0%	Tumonggor et al. 2014
		Austronesian	Fatuketi	West Timor, Indonesia	35	8.6%	Tumonggor et al. 2014
		Austronesian	Kletek Wefatuk	West Timor, Indonesia	15	6.7%	Tumonggor et al. 2014
		Austronesian	Kletek Suai	West Timor, Indonesia	15	6.7%	Tumonggor et al. 2014
		Austronesian	Kletek Rainen	West Timor, Indonesia	17	5.9%	Tumonggor et al. 2014
		Austronesian	Kamanasa	West Timor, Indonesia	62	4.8%	Tumonggor et al. 2014
		Austronesian	Besikama	West Timor, Indonesia	42	4.8%	Tumonggor et al. 2014

Region	Language Group	Language Family	Population	Location	Sample Size	P-P295	Reference
	Papuan						
		Trans-New Guinea	Tialai	West Timor, Indonesia	24	16.7%	Tumonggor et al. 2014

Supplementary Table 13.4. The Papuan Macro-Language Family.

Language Family	Languages	Speakers	Location	Data Source
Trans-New Guinea	478	3,500,000	Papua New Guinea, Indonesia, and East Timor	Ethnologue
West Papuan	23	269,000	Indonesia	Ethnologue
Torricelli	57	114,000	Papua New Guinea	Ethnologue
East Bird's Head-Sentani	8	72,000	Indonesia	Ethnologue
South Bougainville	9	69,000	Papua New Guinea	Ethnologue
Ramu-Lower Sepik	32	66,000	Papua New Guinea	Ethnologue
Language Isolates	9	33,300	Papua New Guinea and Indonesia	Ethnologue
Maybrat	2	25,000	Indonesia	Ethnologue
Border	15	17,000	Papua New Guinea and Indonesia	Ethnologue
Sepik	55	16,300	Papua New Guinea	Ethnologue
South-Central Papuan	22	16,000	Papua New Guinea and Indonesia	Ethnologue
Tor-Kwerba	24	16,000	Indonesia	Ethnologue
Central Solomons	4	14,800	Solomon Islands	Ethnologue
East New Britain	6	14,000	Papua New Guinea	Ethnologue
North Bougainville	4	10,000	Papua New Guinea	Ethnologue

Language Family	Languages	Speakers	Location	Data Source
Lakes Plain	19	9,700	Indonesia	Ethnologue
Nimboran	5	8,500	Indonesia	Ethnologue
East Geelvink Bay	12	8,000	Indonesia	Ethnologue
Yuat	6	7,700	Papua New Guinea	Ethnologue
Eastern Trans-Fly	4	6,800	Papua New Guinea	Ethnologue
Yele-West New Britain	3	6,600	Papua New Guinea	Ethnologue
Skou	8	5,900	Papua New Guinea and Indonesia	Ethnologue
Unclassified Languages	11	5,600	Papua New Guinea and Indonesia	Ethnologue
Mairasi	3	4,400	Indonesia	Ethnologue
Pauwasi	5	3,700	Papua New Guinea and Indonesia	Ethnologue
Kwomtari	3	3,000	Papua New Guinea	Ethnologue
Senagi	2	3,000	Papua New Guinea and Indonesia	Ethnologue
Senagi	2	3,000	Papua New Guinea and Indonesia	Ethnologue
Fas	2	2,800	Papua New Guinea	Ethnologue
Piawi	2	2,600	Papua New Guinea	Ethnologue
Somahai	2	2,200	Indonesia	Ethnologue

Language Family	Languages	Speakers	Location	Data Source
Arai (Left May)	6	2,000	Papua New Guinea	Ethnologue
Arafundi	3	2,000	Papua New Guinea	Ethnologue
Mongol-Langam	3	2,000	Papua New Guinea	Ethnologue
Kaure	3	900	Indonesia	Ethnologue
Lower Mameramo	2	800	Indonesia	Ethnologue
Amto-Musan	2	500	Papua New Guinea	Ethnologue
Bayono-Awbono	2	200	Indonesia	Ethnologue

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Supplementary Tables for Chapter Fourteen and Haplogroups M-P256 and S-B254



Supplementary Table 14.1. Contemporary Distribution of Haplogroup M-P256.

Region	Language Group	Language Family	Population	Location	Sample Size	M-P256	Reference
Australia							
	Australian						
		Australian					
			Aboriginal Australians	Queensland	129	2.3%	Nagle et al. 2016
			Aboriginal Australians	Northern Territory	77	1.3%	Nagle et al. 2016
			Aboriginal Australians	South Australia	265	0.8%	Nagle et al. 2016
Island Southeast Asia							
	Creole (Bislama)						
		Creole					
			Vanuatu	Vanuatu	44	38.6%	Karafet et al. 2015
	Malayo-Polynesian						
		Austronesian					
			Wanigela	Papua New Guinea	21	90.5%	Oven et al. 2014
			Lavongai	PNG, New Hanover	43	81.4%	Scheinfeldt et al. 2006
			Bereina	Papua New Guinea	35	71.4%	Kayser et al. 2006
			Biak	Northwest New Guinea	10	70.0%	Mona et al. 2007
			Tigak	PNG, New Ireland	21	52.4%	Scheinfeldt et al. 2006
			Madak	PNG, New Ireland	19	47.4%	Scheinfeldt et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	M-P256	Reference
			Notsi	PNG, New Ireland	14	42.9%	Scheinfeldt et al. 2006
			Kove	PNG, West New Britain	24	41.7%	Scheinfeldt et al. 2006
			Nalik	PNG, New Ireland	17	41.2%	Scheinfeldt et al. 2006
			Airara	Papua New Guinea	32	40.6%	Oven et al. 2014
			Wandamen	Northwest New Guinea	10	40.0%	Mona et al. 2007
			Melamela	PNG, West New Britain	14	35.7%	Scheinfeldt et al. 2006
			Nyindrou	Admiralty Islands	17	35.3%	Kayser et al. 2008
			Teop	Bougainville	18	33.3%	Scheinfeldt et al. 2006
			Nakanai	PNG, West New Britain	36	30.6%	Scheinfeldt et al. 2006
			Trobriand Islands	Papua New Guinea	53	30.2%	Kayser et al. 2006
			Trobriand Islands	Papua New Guinea	60	28.4%	Oven et al. 2014
			Mamusi	PNG, West New Britain	43	27.9%	Scheinfeldt et al. 2006
			Mengen	PNG, West New Britain	23	26.1%	Scheinfeldt et al. 2006
			Mainland (eastern tip)	Papua New Guinea	24	25.0%	Oven et al. 2014
			Normanby	Papua New Guinea	27	22.2%	Oven et al. 2014
			Flores	Eastern Indonesia	394	20.8%	Karafet et al. 2010
			Tolai	PNG, East New Britain	49	20.4%	Scheinfeldt et al. 2006
			Fergusson	Papua New Guinea	35	20.0%	Oven et al. 2014

Region	Language Group	Language Family	Population	Location	Sample Size	M-P256	Reference
			Kletek Rainen	West Timor, Indonesia	17	17.6%	Tumonggor et al. 2014
			Umaklaran	West Timor, Indonesia	41	17.1%	Tumonggor et al. 2014
			Maluccas	Eastern Indonesia	30	16.7%	Karafet et al. 2010
			Ere-Kele	Admiralty Islands	14	14.3%	Kayser et al. 2008
			Kletek Suai	West Timor, Indonesia	15	13.3%	Tumonggor et al. 2014
			Kamanasa	West Timor, Indonesia	62	12.9%	Tumonggor et al. 2014
			Lembata	Eastern Indonesia	92	12.0%	Karafet et al. 2010
			Saposa	Bougainville	26	11.5%	Scheinfeldt et al. 2006
			Nali	Admiralty Islands	19	10.5%	Kayser et al. 2008
			Andra-Hus	Admiralty Islands	20	10.0%	Kayser et al. 2008
			Besikama	West Timor, Indonesia	42	9.5%	Tumonggor et al. 2014
			Solor	Eastern Indonesia	43	9.4%	Mona et al. 2009, Mona et al. 2011
			East Timor	Eastern Indonesia	33	9.0%	Mona et al. 2009, Mona et al. 2011
			Kletek Wefatuk	West Timor, Indonesia	15	6.7%	Tumonggor et al. 2014
			Umanen Lawalu	West Timor, Indonesia	49	6.1%	Tumonggor et al. 2014
			Timor	Indonesia	509	6.1%	Karafet et al. 2015
			Kurti	Admiralty Islands	18	5.6%	Kayser et al. 2008
			Sumba	Eastern Indonesia	350	4.9%	Karafet et al. 2010
			Titan	Admiralty Islands	21	4.8%	Kayser et al. 2008

Region	Language Group	Language Family	Population	Location	Sample Size	M-P256	Reference
			Lele	Admiralty Islands	23	4.3%	Kayser et al. 2008
			Sulawesi	Eastern Indonesia	54	3.7%	Karafet et al. 2010
			Flores	Eastern Indonesia	71	2.8%	Mona et al. 2009, Mona et al. 2011
			Sudest	Papua New Guinea	38	2.6%	Oven et al. 2014
			Adonara	Eastern Indonesia	96	2.1%	Mona et al. 2009, Mona et al. 2011
			Laran	West Timor, Indonesia	50	2.0%	Tumonggor et al. 2014
			Kateri	West Timor, Indonesia	50	2.0%	Tumonggor et al. 2014
			Raimanawe	West Timor, Indonesia	50	2.0%	Tumonggor et al. 2014
			Bali	Western Indonesia	641	0.6%	Karafet et al. 2015
	Papuan						
		East Bird's Head-Sentani					
			Mantion	Northwest New Guinea	11	54.6%	Mona et al. 2007
		East New Britain					
			Mali (Baining)	PNG, East New Britain	24	91.7%	Scheinfeldt et al. 2006
			Kaket (Baining)	PNG, East New Britain	39	51.3%	Scheinfeldt et al. 2006
		Isolate					
			Hatam	Northwest New Guinea	12	75.0%	Mona et al. 2007
			Kuot	PNG, New Ireland	32	53.1%	Scheinfeldt et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	M-P256	Reference
			Sulka	PNG, East New Britain	33	21.2%	Scheinfeldt et al. 2006
		Maybrat					
			Karon Dori	Northwest New Guinea	22	27.3%	Mona et al. 2007
			Maibrat	Northwest New Guinea	24	8.3%	Mona et al. 2007
		North Bougainville					
			Aita	Bougainville	18	83.3%	Scheinfeldt et al. 2006
		Trans-New Guinea					
			Ketengban	Western New Guinea	19	100.0%	Kayser et al. 2003
			Una	Western New Guinea	46	100.0%	Kayser et al. 2003
			Citak	Western New Guinea	28	85.7%	Kayser et al. 2003
			Asmat	Western New Guinea	20	75.0%	Kayser et al. 2003
			Kapuna	Papua New Guinea	46	45.7%	Kayser et al. 2006
			Highlands	Papua New Guinea	31	35.5%	Kayser et al. 2006
			Ekari	Northwest New Guinea	19	21.1%	Mona et al. 2007
			Pantar	Indonesia	26	19.2%	Karafet et al. 2015
			Baham	Northwest New Guinea	24	16.7%	Mona et al. 2007
			Alor	Eastern Indonesia	28	14.3%	Karafet et al. 2010
			Alor	Eastern Indonesia	23	13.0%	Mona et al. 2009, Mona et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	M-P256	Reference
			Pantar	Eastern Indonesia	28	10.7%	Mona et al. 2009, Mona et al. 2011
		Yele-West New Britain					
			Anem	PNG, West New Britain	34	52.9%	Scheinfeldt et al. 2006
			Ata	PNG, West New Britain	45	40.0%	Scheinfeldt et al. 2006
			Rossel Islanders	Papua New Guinea	80	6.3%	Oven et al. 2014
Oceania	Malayo-Polynesian	Austronesian					
			Choiseul	Solomon Islands	36	91.8%	Delfin et al. 2012
			Ranongga	Solomon Islands	44	84.1%	Delfin et al. 2012
			Simbo	Solomon Islands	20	80.0%	Delfin et al. 2012
			Guadalcanal	Solomon Islands	53	52.8%	Delfin et al. 2012
			Santa Cruz	Solomon Islands	36	49.9%	Delfin et al. 2012
			Malaita	Solomon Islands	98	45.8%	Delfin et al. 2012
			Isabel	Solomon Islands	53	35.9%	Delfin et al. 2012
			Fijians	Fiji	107	35.5%	Kayser et al. 2006
			Makira	Solomon Islands	39	28.3%	Delfin et al. 2012
			Gela	Solomon Islands	47	19.2%	Delfin et al. 2012
			Tongans	Tonga	29	17.2%	Kayser et al. 2006
			East Futunans	East Futuna	50	12.0%	Kayser et al. 2006
			Samoans	Samoa	62	3.2%	Kayser et al. 2006
			Ontong Java	Solomon Islands	32	3.1%	Delfin et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	M-P256	Reference
Papuan							
Central Solomons							
			Savo	Solomon Islands	30	76.7%	Delfin et al. 2012
			Vella Lavella	Solomon Islands	44	70.4%	Delfin et al. 2012
			Russell Islanders	Solomon Islands	32	59.4%	Delfin et al. 2012
			Western Province	Solomon Islands	32	9.4%	Cox and Lahr 2006

Supplementary Table 14.2. Contemporary Distribution of Haplogroup S-B254.

Region	Language Group	Language Family	Population	Location	Sample Size	S-B254	Reference
Australia							
	Australian						
		Australian					
			Aboriginal Australians	South Australia	265	21.5%	Nagle et al. 2016
			Aboriginal Australians	Northern Territory	77	19.5%	Nagle et al. 2016
			Aboriginal Australians	Queensland	129	3.1%	Nagle et al. 2016
			Aboriginal Australians	Victoria	186	2.2%	Nagle et al. 2016
Island Southeast Asia							
	Creole (Bislama)						
		Creole					
			Vanuatu	Vanuatu	44	22.7%	Karafet et al. 2015
	Malayo-Polynesian						
		Austronesian					
			Aeta	Philippines	25	60.0%	Karafet et al. 2015
			Titan	Admiralty Islands	21	47.7%	Kayser et al. 2008
			Seimat-Wuvulu	Admiralty Islands	11	45.5%	Kayser et al. 2008
			Andra-Hus	Admiralty Islands	20	45.0%	Kayser et al. 2008
			Kletek Suai	West Timor, Indonesia	15	40.0%	Tumonggor et al. 2014
			Mamusi	PNG, West New Britain	43	39.5%	Scheinfeldt et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	S-B254	Reference
			Mengen	PNG, West New Britain	23	39.1%	Scheinfeldt et al. 2006
			Tolai	PNG, East New Britain	49	36.7%	Scheinfeldt et al. 2006
			Melamela	PNG, West New Britain	14	35.7%	Scheinfeldt et al. 2006
			Lembata	Eastern Indonesia	92	33.7%	Karafet et al. 2010
			Notsi	PNG, New Ireland	14	28.6%	Scheinfeldt et al. 2006
			Kurti	Admiralty Islands	18	27.8%	Kayser et al. 2008
			Madak	PNG, New Ireland	19	26.3%	Scheinfeldt et al. 2006
			Lembata	Eastern Indonesia	31	25.8%	Mona et al. 2009, Mona et al. 2011
			Nakanai	PNG, West New Britain	36	25.0%	Scheinfeldt et al. 2006
			Kletek Rainen	West Timor, Indonesia	17	23.6%	Tumonggor et al. 2014
			Airara	Papua New Guinea	32	21.9%	Oven et al. 2014
			Besikama	West Timor, Indonesia	42	21.5%	Tumonggor et al. 2014
			Ere-Kele	Admiralty Islands	14	21.4%	Kayser et al. 2008
			Nali	Admiralty Islands	19	21.1%	Kayser et al. 2008
			Biak	Northwest New Guinea	10	20.0%	Mona et al. 2007
			Sumba	Eastern Indonesia	350	17.7%	Karafet et al. 2010
			Maluccas	Eastern Indonesia	30	16.7%	Karafet et al. 2010
			Sudest	Papua New Guinea	38	15.8%	Oven et al. 2014
			Tigak	PNG, New Ireland	21	14.3%	Scheinfeldt et al. 2006
			Lele	Admiralty Islands	23	13.0%	Kayser et al. 2008

Region	Language Group	Language Family	Population	Location	Sample Size	S-B254	Reference
			Flores	Eastern Indonesia	71	12.7%	Mona et al. 2009, Mona et al. 2011
			Nyindrou	Admiralty Islands	17	11.8%	Kayser et al. 2008
			Umanen Lawalu	West Timor, Indonesia	49	10.2%	Tumonggor et al. 2014
			Umaklaran	West Timor, Indonesia	41	9.7%	Tumonggor et al. 2014
			Solor	Eastern Indonesia	43	9.3%	Mona et al. 2009, Mona et al. 2011
			East Timor	Eastern Indonesia	33	9.1%	Mona et al. 2009, Mona et al. 2011
			Timor	Indonesia	509	8.7%	Karafet et al. 2015
			Mainland (eastern tip)	Papua New Guinea	24	8.4%	Oven et al. 2014
			Flores	Eastern Indonesia	394	8.1%	Karafet et al. 2010
			Raimanawe	West Timor, Indonesia	50	8.0%	Tumonggor et al. 2014
			Saposa	Bougainville	26	7.7%	Scheinfeldt et al. 2006
			Kletek Wefatuk	West Timor, Indonesia	15	6.7%	Tumonggor et al. 2014
			Kakaniuk	West Timor, Indonesia	47	6.4%	Tumonggor et al. 2014
			Kamanasa	West Timor, Indonesia	62	6.4%	Tumonggor et al. 2014
			Nalik	PNG, New Ireland	17	5.9%	Scheinfeldt et al. 2006
			Borneo	Western Indonesia	86	5.8%	Karafet et al. 2015
			Sulawesi	Eastern Indonesia	54	5.6%	Karafet et al. 2010
			Teop	Bougainville	18	5.6%	Scheinfeldt et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	S-B254	Reference
			Laran	West Timor, Indonesia	50	4.0%	Tumonggor et al. 2014
			Fergusson	Papua New Guinea	35	2.9%	Oven et al. 2014
			Lavongai	PNG, New Hanover	43	2.3%	Scheinfeldt et al. 2006
			Adonara	Eastern Indonesia	96	2.1%	Mona et al. 2009, Mona et al. 2011
			Bali	Western Indonesia	641	0.3%	Karafet et al. 2015
	Papuan						
		East New Britain					
			Kaket (Baining)	PNG, East New Britain	39	43.6%	Scheinfeldt et al. 2006
			Mali (Baining)	PNG, East New Britain	24	4.2%	Scheinfeldt et al. 2006
		Isolate					
			Kuot	PNG, New Ireland	32	21.9%	Scheinfeldt et al. 2006
			Sulka	PNG, East New Britain	33	18.2%	Scheinfeldt et al. 2006
		Trans-New Guinea					
			Ekari	Northwest New Guinea	19	73.7%	Mona et al. 2007
			Kapuna	Papua New Guinea	46	54.3%	Kayser et al. 2006
			Highlands	Papua New Guinea	31	51.6%	Kayser et al. 2006
			Pantar	Eastern Indonesia	28	17.9%	Mona et al. 2009, Mona et al. 2011
			Pantar	Indonesia	26	15.4%	Karafet et al. 2015
			Alor	Eastern Indonesia	28	7.1%	Karafet et al. 2010

Region	Language Group	Language Family	Population	Location	Sample Size	S-B254	Reference
			Alor	Eastern Indonesia	23	4.4%	Mona et al. 2009, Mona et al. 2011
			Tialai	West Timor, Indonesia	24	4.2%	Tumonggor et al. 2014
			Citak	Western New Guinea	28	3.6%	Kayser et al. 2003
		Yele-West New Britain					
			Ata	PNG, West New Britain	45	31.1%	Scheinfeldt et al. 2006
			Rossel Islanders	Papua New Guinea	80	30.0%	Oven et al. 2014
			Anem	PNG, West New Britain	34	14.7%	Scheinfeldt et al. 2006
Oceania	Malayo-Polynesian	Austronesian					
			Makira	Solomon Islands	39	38.5%	Delfin et al. 2012
			Tutuila	Samoa Archipelago	24	25.0%	Mirabal et al. 2012
			Tongans	Tonga	52	23.4%	Mirabal et al. 2012
			West Samoa	Samoa Archipelago	61	13.1%	Mirabal et al. 2012
			Santa Cruz	Solomon Islands	36	11.1%	Delfin et al. 2012
			Bora Bora, Rai'atea, and Taha'a	Leeward Society Islands	72	10.0%	Hudjashov et al. 2018
			Guadalcanal	Solomon Islands	53	9.4%	Delfin et al. 2012
			Malaita	Solomon Islands	98	7.2%	Delfin et al. 2012
			Ontong Java	Solomon Islands	32	6.3%	Delfin et al. 2012
			Simbo	Solomon Islands	20	5.0%	Delfin et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	S-B254	Reference
			Manua	Samoaan Archipelago	21	4.8%	Mirabal et al. 2012
			Ranongga	Solomon Islands	44	4.5%	Delfin et al. 2012
			Isabel	Solomon Islands	53	3.8%	Delfin et al. 2012
			Maori	New Zealand	48	2.0%	Hudjashov et al. 2018
			Samoans	Samoa	62	1.6%	Kayser et al. 2006
Papuan							
Central Solomons							
			Western Province	Solomon Islands	32	3.1%	Cox and Lahr 2006

Supplementary Table 14.3. Contemporary Distribution of M1a-P34.

Region	Language Group	Language Family	Population	Location	Sample Size	M1a-P34	Reference
Island Southeast Asia							
	Malayo-Polynesian						
		Austronesian					
			Wanigela	Papua New Guinea	21	90.5%	Oven et al. 2014
			Biak	Northwest New Guinea	10	70.0%	Mona et al. 2007
			Bereina	Papua New Guinea	35	65.7%	Kayser et al. 2006
			Wandamen	Northwest New Guinea	10	40.0%	Mona et al. 2007
			Nyindrou	Admiralty Islands	17	35.3%	Kayser et al. 2008
			Trobriand Islands	Papua New Guinea	53	28.3%	Kayser et al. 2006
			Airara	Papua New Guinea	32	28.1%	Oven et al. 2014
			Trobriand Islands	Papua New Guinea	60	26.7%	Oven et al. 2014
			Mainland (eastern tip)	Papua New Guinea	24	25.0%	Oven et al. 2014
			Normanby	Papua New Guinea	27	22.2%	Oven et al. 2014
			Flores	Eastern Indonesia	394	18.3%	Karafet et al. 2010
			Kletek Rainen	West Timor, Indonesia	17	17.6%	Tumonggor et al. 2014
			Fergusson	Papua New Guinea	35	17.1%	Oven et al. 2014
			Umaklaran	West Timor, Indonesia	41	17.1%	Tumonggor et al. 2014
			Maluccas	Eastern Indonesia	30	16.7%	Karafet et al. 2010

Region	Language Group	Language Family	Population	Location	Sample Size	M1a-P34	Reference
			Ere-Kele	Admiralty Islands	14	14.3%	Kayser et al. 2008
			Kletek Suai	West Timor, Indonesia	15	13.3%	Tumonggor et al. 2014
			Kamanasa	West Timor, Indonesia	62	12.9%	Tumonggor et al. 2014
			Lembata	Eastern Indonesia	92	12.0%	Karafet et al. 2010
			Nali	Admiralty Islands	19	10.5%	Kayser et al. 2008
			Andra-Hus	Admiralty Islands	20	10.0%	Kayser et al. 2008
			Besikama	West Timor, Indonesia	42	9.5%	Tumonggor et al. 2014
			Solor	Eastern Indonesia	43	9.4%	Mona et al. 2009, Mona et al. 2011
			East Timor	Eastern Indonesia	33	9.0%	Mona et al. 2009, Mona et al. 2011
			Kletek Wefatuk	West Timor, Indonesia	15	6.7%	Tumonggor et al. 2014
			Umanen Lawalu	West Timor, Indonesia	49	6.1%	Tumonggor et al. 2014
			Kurti	Admiralty Islands	18	5.6%	Kayser et al. 2008
			Sumba	Eastern Indonesia	350	4.9%	Karafet et al. 2010
			Titan	Admiralty Islands	21	4.8%	Kayser et al. 2008
			Lele	Admiralty Islands	23	4.3%	Kayser et al. 2008
			Sulawesi	Eastern Indonesia	54	3.7%	Karafet et al. 2010
			Flores	Eastern Indonesia	71	2.8%	Mona et al. 2009, Mona et al. 2011
			Sudest	Papua New Guinea	38	2.6%	Oven et al. 2014
			Adonara	Eastern Indonesia	96	2.1%	Mona et al. 2009, Mona et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	M1a-P34	Reference
			Raimanawe	West Timor, Indonesia	50	2.0%	Tumonggor et al. 2014
			Laran	West Timor, Indonesia	50	2.0%	Tumonggor et al. 2014
			Kateri	West Timor, Indonesia	50	2.0%	Tumonggor et al. 2014
Papuan							
		East Bird's Head-Sentani					
			Mantion	Northwest New Guinea	11	54.6%	Mona et al. 2007
		Isolate					
			Hatam	Northwest New Guinea	12	75.0%	Mona et al. 2007
		Maybrat					
			Karon Dori	Northwest New Guinea	22	27.3%	Mona et al. 2007
			Maibrat	Northwest New Guinea	24	8.3%	Mona et al. 2007
		Trans-New Guinea					
			Kapuna	Papua New Guinea	46	45.7%	Kayser et al. 2006
			Highlands	Papua New Guinea	31	32.3%	Kayser et al. 2006
			Ekari	Northwest New Guinea	19	21.1%	Mona et al. 2007
			Baham	Northwest New Guinea	24	16.7%	Mona et al. 2007
			Alor	Eastern Indonesia	28	14.3%	Karafet et al. 2010
			Alor	Eastern Indonesia	23	13.0%	Mona et al. 2009, Mona et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	M1a-P34	Reference
			Pantar	Eastern Indonesia	28	10.7%	Mona et al. 2009, Mona et al. 2011
		Yele-West New Britain					
			Rossel Islanders	Papua New Guinea	80	6.3%	Oven et al. 2014
Oceania							
	Malayo-Polynesian						
		Austronesian					
			Santa Cruz	Solomon Islands	36	8.3%	Delfin et al. 2012
			Malaita	Solomon Islands	98	5.1%	Delfin et al. 2012
			Isabel	Solomon Islands	53	1.9%	Delfin et al. 2012
			Samoans	Samoa	62	1.6%	Kayser et al. 2006

Supplementary Table 14.4. Contemporary Distribution of S1a-M254.

Region	Language Group	Language Family	Population	Location	Sample Size	S1a-M254	Reference
Island Southeast Asia							
	Malayo-Polynesian						
		Austronesian					
			Andra-Hus	Admiralty Islands	20	45.0%	Kayser et al. 2008
			Titan	Admiralty Islands	21	42.9%	Kayser et al. 2008
			Kletek Suai	West Timor, Indonesia	15	40.0%	Tumonggor et al. 2014
			Lembata	Eastern Indonesia	92	31.5%	Karafet et al. 2010
			Kurti	Admiralty Islands	18	27.8%	Kayser et al. 2008
			Kletek Rainen	West Timor, Indonesia	17	23.6%	Tumonggor et al. 2014
			Airara	Papua New Guinea	32	21.9%	Oven et al. 2014
			Ere-Kele	Admiralty Islands	14	21.4%	Kayser et al. 2008
			Nali	Admiralty Islands	19	21.1%	Kayser et al. 2008
			Biak	Northwest New Guinea	10	20.0%	Mona et al. 2007
			Lembata	Eastern Indonesia	31	19.4%	Mona et al. 2009, Mona et al. 2011
			Besikama	West Timor, Indonesia	42	19.1%	Tumonggor et al. 2014
			Sumba	Eastern Indonesia	350	16.9%	Karafet et al. 2010
			Maluccas	Eastern Indonesia	30	16.7%	Karafet et al. 2010
			Sudest	Papua New Guinea	38	15.8%	Oven et al. 2014
			Lele	Admiralty Islands	23	13.0%	Kayser et al. 2008

Region	Language Group	Language Family	Population	Location	Sample Size	S1a-M254	Reference
			Flores	Eastern Indonesia	71	12.7%	Mona et al. 2009, Mona et al. 2011
			Nyindrou	Admiralty Islands	17	11.8%	Kayser et al. 2008
			Umanen Lawalu	West Timor, Indonesia	49	10.2%	Tumonggor et al. 2014
			Solor	Eastern Indonesia	43	9.3%	Mona et al. 2009, Mona et al. 2011
			East Timor	Eastern Indonesia	33	9.1%	Mona et al. 2009, Mona et al. 2011
			Raimanawe	West Timor, Indonesia	50	8.0%	Tumonggor et al. 2014
			Flores	Eastern Indonesia	394	7.4%	Karafet et al. 2010
			Umaklaran	West Timor, Indonesia	41	7.3%	Tumonggor et al. 2014
			Kletek Wefatuk	West Timor, Indonesia	15	6.7%	Tumonggor et al. 2014
			Kamanasa	West Timor, Indonesia	62	6.4%	Tumonggor et al. 2014
			Kakaniuk	West Timor, Indonesia	47	6.4%	Tumonggor et al. 2014
			Sulawesi	Eastern Indonesia	54	5.6%	Karafet et al. 2010
			Mainland (eastern tip)	Papua New Guinea	24	4.2%	Oven et al. 2014
			Laran	West Timor, Indonesia	50	4.0%	Tumonggor et al. 2014
			Fergusson	Papua New Guinea	35	2.9%	Oven et al. 2014
			Adonara	Eastern Indonesia	96	2.1%	Mona et al. 2009, Mona et al. 2011
	Papuan						

Region	Language Group	Language Family	Population	Location	Sample Size	S1a-M254	Reference
Trans-New Guinea							
			Ekari	Northwest New Guinea	19	73.7%	Mona et al. 2007
			Kapuna	Papua New Guinea	46	52.2%	Kayser et al. 2006
			Highlands	Papua New Guinea	31	51.6%	Kayser et al. 2006
			Pantar	Eastern Indonesia	28	17.9%	Mona et al. 2009, Mona et al. 2011
			Alor	Eastern Indonesia	28	7.1%	Karafet et al. 2010
			Alor	Eastern Indonesia	23	4.4%	Mona et al. 2009, Mona et al. 2011
			Tialai	West Timor, Indonesia	24	4.2%	Tumonggor et al. 2014
Yele-West New Britain							
			Rossel Islanders	Papua New Guinea	80	30.0%	Oven et al. 2014
Oceania							
Malayo-Polynesian							
Austronesian							
			Santa Cruz	Solomon Islands	36	8.3%	Delfin et al. 2012
			Guadalcanal	Solomon Islands	53	7.5%	Delfin et al. 2012
			Malaita	Solomon Islands	98	4.1%	Delfin et al. 2012

Supplementary Table 14.5. The Contemporary Distribution of S1a-P308.

Region	Language Family	Population	Location	Sample Size	S1a-P308	Reference
Australia	Australian	Aboriginal Australians	South Australia	265	21.5%	Nagle et al. 2016
Australia	Australian	Aboriginal Australians	Northern Territory	77	19.5%	Nagle et al. 2016
Australia	Australian	Aboriginal Australians	Queensland	129	3.1%	Nagle et al. 2016
Australia	Australian	Aboriginal Australians	Victoria	186	2.2%	Nagle et al. 2016

Supplementary Table 14.6. Contemporary Distribution of M1a-P87.

Region	Language Group	Language Family	Population	Location	Sample Size	M1a-P87	Reference			
Island Southeast Asia	Malayo-Polynesian	Austronesian	Lavongai	PNG, New Hanover	43	81.4%	Scheinfeldt et al. 2006			
			Madak	PNG, New Ireland	19	47.4%	Scheinfeldt et al. 2006			
			Notsi	PNG, New Ireland	14	42.9%	Scheinfeldt et al. 2006			
			Tigak	PNG, New Ireland	21	42.9%	Scheinfeldt et al. 2006			
			Nalik	PNG, New Ireland	17	41.2%	Scheinfeldt et al. 2006			
			Mamusi	PNG, West New Britain	43	27.9%	Scheinfeldt et al. 2006			
			Teop	Bougainville	18	22.2%	Scheinfeldt et al. 2006			
			Tolai	PNG, East New Britain	49	20.4%	Scheinfeldt et al. 2006			
			Airara	Papua New Guinea	32	12.5%	Oven et al. 2014			
			Saposa	Bougainville	26	11.5%	Scheinfeldt et al. 2006			
			Mengen	PNG, West New Britain	23	8.7%	Scheinfeldt et al. 2006			
			Kove	PNG, West New Britain	24	8.3%	Scheinfeldt et al. 2006			
			Bereina	Papua New Guinea	35	5.7%	Kayser et al. 2006			
			Nakanai	PNG, West New Britain	36	5.6%	Scheinfeldt et al. 2006			
			Papuan		East New Britain					

Region	Language Group	Language Family	Population	Location	Sample Size	M1a-P87	Reference
			Mali (Baining)	PNG, East New Britain	24	58.3%	Scheinfeldt et al. 2006
			Kaket (Baining)	PNG, East New Britain	39	28.2%	Scheinfeldt et al. 2006
		Isolate					
			Kuot	PNG, New Ireland	32	53.1%	Scheinfeldt et al. 2006
			Sulka	PNG, East New Britain	33	9.1%	Scheinfeldt et al. 2006
		North Bougainville					
			Aita	Bougainville	18	83.3%	Scheinfeldt et al. 2006
		Yele-West New Britain					
			Ata	PNG, West New Britain	45	35.6%	Scheinfeldt et al. 2006
			Anem	PNG, West New Britain	34	5.9%	Scheinfeldt et al. 2006
Oceania							
	Malayo-Polynesian						
		Austronesian					
			Ranongga	Solomon Islands	44	29.5%	Delfin et al. 2012
			Makira	Solomon Islands	39	23.1%	Delfin et al. 2012
			Santa Cruz	Solomon Islands	36	19.4%	Delfin et al. 2012
			Tongans	Tonga	29	17.2%	Kayser et al. 2006
			Malaita	Solomon Islands	98	10.2%	Delfin et al. 2012
			East Futunans	East Futuna	50	10.0%	Kayser et al. 2006
			Guadalcanal	Solomon Islands	53	7.5%	Delfin et al. 2012
			Fijians	Fiji	107	7.5%	Kayser et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	M1a-P87	Reference
			Choiseul	Solomon Islands	36	5.6%	Delfin et al. 2012
			Simbo	Solomon Islands	20	5.0%	Delfin et al. 2012
			Isabel	Solomon Islands	53	3.8%	Delfin et al. 2012
			Samoans	Samoa	62	1.6%	Kayser et al. 2006
Papuan							
		Central Solomons					
			Vella Lavella	Solomon Islands	44	15.9%	Delfin et al. 2012
			Savo	Solomon Islands	30	6.7%	Delfin et al. 2012

Supplementary Table 14.7. Contemporary Distribution of M2-M353.

Language Group	Language Family	Region	Population	Location	Sample Size	M2-M353	Reference
Malayo-Polynesian							
	Austronesian						
		Oceania	Choiseul	Solomon Islands	36	75.0%	Delfin et al. 2012
		Oceania	Simbo	Solomon Islands	20	65.0%	Delfin et al. 2012
		Oceania	Ranongga	Solomon Islands	44	45.5%	Delfin et al. 2012
		Oceania	Isabel	Solomon Islands	53	30.2%	Delfin et al. 2012
		Oceania	Guadalcanal	Solomon Islands	53	20.8%	Delfin et al. 2012
		Oceania	Malaita	Solomon Islands	98	14.2%	Delfin et al. 2012
		Oceania	Gela	Solomon Islands	47	6.4%	Delfin et al. 2012
		Oceania	Fijians	Fiji	107	3.7%	Kayser et al. 2006
		Oceania	Makira	Solomon Islands	39	2.6%	Delfin et al. 2012
		Oceania	East Futunans	East Futuna	50	2.0%	Kayser et al. 2006
Papuan							
	Central Solomons						
		Oceania	Savo	Solomon Islands	30	43.3%	Delfin et al. 2012
		Oceania	Vella Lavella	Solomon Islands	44	43.2%	Delfin et al. 2012
		Oceania	Russell Islanders	Solomon Islands	32	40.6%	Delfin et al. 2012

Supplementary Table 14.8. Contemporary Distribution of M3-P117.

Region	Language Group	Language Family	Population	Location	Sample Size	M3-P117	Reference
Island Southeast Asia							
	Malayo-Polynesian						
		Austronesian					
			Melamela	PNG, West New Britain	14	35.7%	Scheinfeldt et al. 2006
			Nakanai	PNG, West New Britain	36	22.2%	Scheinfeldt et al. 2006
			Mengen	PNG, West New Britain	23	17.4%	Scheinfeldt et al. 2006
			Teop	Bougainville	18	11.1%	Scheinfeldt et al. 2006
			Kove	PNG, West New Britain	24	4.2%	Scheinfeldt et al. 2006
			Fergusson	Papua New Guinea	35	2.9%	Oven et al. 2014
	Papuan						
		East New Britain					
			Mali (Baining)	PNG, East New Britain	24	33.3%	Scheinfeldt et al. 2006
			Kaket (Baining)	PNG, East New Britain	39	23.1%	Scheinfeldt et al. 2006
		Isolate					
			Sulka	PNG, East New Britain	33	12.1%	Scheinfeldt et al. 2006
		Yele-West New Britain					
			Anem	PNG, West New Britain	34	47.1%	Scheinfeldt et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	M3-P117	Reference
Oceania							
Malayo-Polynesian							
Austronesian							
			Guadalcanal	Solomon Islands	53	24.5%	Delfin et al. 2012
			Santa Cruz	Solomon Islands	36	22.2%	Delfin et al. 2012
			Malaita	Solomon Islands	98	15.3%	Delfin et al. 2012
			Gela	Solomon Islands	47	12.8%	Delfin et al. 2012
			Simbo	Solomon Islands	20	10.0%	Delfin et al. 2012
			Choiseul	Solomon Islands	36	5.6%	Delfin et al. 2012
			Ontong Java	Solomon Islands	32	3.1%	Delfin et al. 2012
			Makira	Solomon Islands	39	2.6%	Delfin et al. 2012
			Ranongga	Solomon Islands	44	2.3%	Delfin et al. 2012
Papuan							
Central Solomons							
			Savo	Solomon Islands	30	26.7%	Delfin et al. 2012
			Russell Islanders	Solomon Islands	32	18.8%	Delfin et al. 2012
			Vella Lavella	Solomon Islands	44	4.5%	Delfin et al. 2012

Supplementary Table 14.9. Contemporary Distribution of S1a-P79.

Region	Language Group	Language Family	Population	Location	Sample Size	S1a-P79	Reference
Island Southeast Asia							
	Creole (Bislama)						
		Creole					
			Vanuatu	Vanuatu	44	6.8%	Karafet et al. 2015
	Malayo-Polynesian						
		Austronesian					
			Seimat-Wuvulu	Admiralty Islands	11	45.5%	Kayser et al. 2008
			Mamusi	PNG, West New Britain	43	39.5%	Scheinfeldt et al. 2006
			Mengen	PNG, West New Britain	23	39.1%	Scheinfeldt et al. 2006
			Melamela	PNG, West New Britain	14	35.7%	Scheinfeldt et al. 2006
			Notsi	PNG, New Ireland	14	28.6%	Scheinfeldt et al. 2006
			Nakanai	PNG, West New Britain	36	22.2%	Scheinfeldt et al. 2006
			Madak	PNG, New Ireland	19	21.1%	Scheinfeldt et al. 2006
			Tolai	PNG, East New Britain	49	16.3%	Scheinfeldt et al. 2006
			Saposa	Bougainville	26	7.7%	Scheinfeldt et al. 2006
			Teop	Bougainville	18	5.6%	Scheinfeldt et al. 2006
			Titan	Admiralty Islands	21	4.8%	Kayser et al. 2008
			Besikama	West Timor, Indonesia	42	2.4%	Tumonggor et al. 2014
			Timor	Indonesia	509	0.2%	Karafet et al. 2015

Region	Language Group	Language Family	Population	Location	Sample Size	S1a-P79	Reference
Papuan							
East New Britain							
			Kaket (Baining)	PNG, East New Britain	39	41.0%	Scheinfeldt et al. 2006
			Mali (Baining)	PNG, East New Britain	24	4.2%	Scheinfeldt et al. 2006
Isolate							
			Kuot	PNG, New Ireland	32	18.8%	Scheinfeldt et al. 2006
			Sulka	PNG, East New Britain	33	18.2%	Scheinfeldt et al. 2006
Yele-West New Britain							
			Ata	PNG, West New Britain	45	26.7%	Scheinfeldt et al. 2006
			Anem	PNG, West New Britain	34	5.9%	Scheinfeldt et al. 2006
Oceania							
Malayo-Polynesian							
Austronesian							
			Makira	Solomon Islands	39	38.5%	Delfin et al. 2012
			Tutuila	Samoa Archipelago	24	16.7%	Mirabal et al. 2012
			Bora Bora, Rai'atea, and Taha'a	Leeward Society Islands	72	10.0%	Hudjashov et al. 2018
			West Samoa	Samoa Archipelago	61	8.2%	Mirabal et al. 2012
			Ontong Java	Solomon Islands	32	6.3%	Delfin et al. 2012
			Simbo	Solomon Islands	20	5.0%	Delfin et al. 2012
			Ranongga	Solomon Islands	44	4.5%	Delfin et al. 2012
			Isabel	Solomon Islands	53	3.8%	Delfin et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	S1a-P79	Reference
			Malaita	Solomon Islands	98	3.1%	Delfin et al. 2012
			Santa Cruz	Solomon Islands	36	2.8%	Delfin et al. 2012
			Maori	New Zealand	48	2.0%	Hudjashov et al. 2018
			Guadalcanal	Solomon Islands	53	1.9%	Delfin et al. 2012
			Tongans	Tonga	52	1.9%	Mirabal et al. 2012

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Supplementary Tables for Chapter Fifteen and Haplogroup N-M231.



Supplementary Table 15.1. Contemporary Distributions of N1b-F2930.

Region	Family	Population	Location	Sample Size	Frequency N1b-F2930	References
East Asia						
	Sino-Tibetan	Lhoba	South-Central China	109	28.4%	Hu et al. 2015
	Sino-Tibetan	Han	Heilongjiang Province	34	11.8%	Hu et al. 2015
	Tai-Kadai	Zhuang	Southeastern China	29	10.3%	Hu et al. 2015
	Sino-Tibetan	Han	Northwest China	44	6.8%	Hu et al. 2015
	Sino-Tibetan	Monpa	Southwestern China	15	6.7%	Hu et al. 2015
	Sino-Tibetan	Tibetans	Ü-Tsang Province, Tibet	788	6.0%	Hu et al. 2015
	Sino-Tibetan	Tibetans	Tingri County, Tibet	113	5.3%	Hu et al. 2015
	Sino-Tibetan	Han	Guangxi Autonomous Region	19	5.3%	Hu et al. 2015

Supplementary Table 15.2. Contemporary Distribution of N1a-P43.

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-P43	References
Baltic							
	Finnic						
		Uralic	Veps	Russia	40	17.5%	Rootsi et al. 2007; Ilumae et al. 2016
		Uralic	Karelians	Russia	139	0.7%	Rootsi et al. 2007; Ilumae et al. 2016
	Slavic						
		Indo-European	Russians	Pinega	103	16.5%	Balanovsky et al. 2008; Ilumae et al. 2016
		Indo-European	Russians	Archangelsk, Russia	106	6.6%	Balanovsky et al. 2008; Ilumae et al. 2016
Caucasus							
	Turkic						
		Turkic	Nogais (Kara)	Caucasus Russia	76	2.6%	Yunusbayev et al. 2012
		Turkic	Nogais (Kuban)	Caucasus Russia	87	1.1%	Yunusbayev et al. 2012
Central Asia							
	Iranian						
		Indo-European	Tajik-Badakhshan	Afghanistan	37	2.7%	Di Cristofaro et al. 2013
	Turkic						
		Turkic	Kyrgyz-SouthWest	Kyrgyzstan	20	5.0%	Di Cristofaro et al. 2013
		Turkic	Uzbek-Jawzjan	Afghanistan	94	3.2%	Di Cristofaro et al. 2013
		Turkic	Kazakhs	Kazakhstan	185	1.1%	Rootsi et al. 2007; Ilumae et al. 2016

East Asia

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-P43	References
	Mongolic						
		Mongolic	Mongols	Northeastern Mongolia	20	10.0%	Di Cristofaro et al. 2013
		Mongolic	Mongols	Mongolia	381	5.8%	Ilumae et al. 2016
		Mongolic	Mongols	Ulaanbaatar, Mongolia	75	2.7%	Karafet et al. 2018
		Mongolic	Mongols (Ooled)	Hulunbuir Region	62	1.6%	Hu et al. 2015
		Mongolic	Mongols	Northwestern Mongolia	97	1.0%	Di Cristofaro et al. 2013
	Tungusic						
		Tungusic	Nanai (Hezhe)	Northeastern China	45	17.8%	Xue et al. 2006
		Tungusic	Oroqen	Northeastern China	31	6.5%	Xue et al. 2006
		Tungusic	Manchu	Eastern China	35	2.9%	Xue et al. 2006
Eastern Europe	Mari						
		Uralic	Mari	Volga-Uralic	51	15.7%	Rootsi et al. 2007; Ilumae et al. 2016
	Mongolic						
		Mongolic	Kalmyks	Kalmyk Republic	426	1.4%	Malyarchuk et al. 2013
	Permian						
		Uralic	Udmurts	Volga-Uralic, Udmurtia	54	11.1%	Rootsi et al. 2007; Ilumae et al. 2016
	Slavic						
		Indo-European	Russians	Vladimir	51	2.0%	Malyarchuk and Derenko 2008
		Indo-European	Russians	Orjol	110	0.9%	Balanovsky et al. 2008; Ilumae et al. 2016

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-P43	References
		Indo-European	Russians	Pskov	132	0.8%	Balanovsky et al. 2008; Ilumae et al. 2016
		Indo-European	Belarusians	Belarus	267	0.7%	Kushniarevich et al. 2013; Ilumae et al. 2016
		Indo-European	Russians	Belgorod	143	0.7%	Balanovsky et al. 2008; Ilumae et al. 2016
		Indo-European	Ukrainians	Ukraine	566	0.5%	Rootsi et al. 2007; Ilumae et al. 2016
	Turkic						
		Turkic	Chuvash	Volga-Uralic, Chuvash Republic	114	9.6%	Rootsi et al. 2007; Ilumae et al. 2016
		Turkic	Bashkir	Bashkortostan	568	0.9%	Ilumae et al. 2016
Northern Eurasia							
	Chukotko-Kamchatkan						
		Chukotko-Kamchatkan	Koryaks	Northeastern Siberia	12	16.7%	Karafet et al. 2002; Rootsi et al. 2007
	Eskimo-Aleut						
		Eskimo-Aleut	Yupik	Eastern Siberia	31	12.9%	Kharkov 2005; Rootsi et al. 2007
		Eskimo-Aleut	Yupik	Eastern Siberia	17	11.8%	Ilumae et al. 2016
	Mongolic						
		Mongolic	Kalmyks	Southern Siberia	60	3.3%	Derenko et al. 2007
		Mongolic	Buryats	Buryat Republic	111	2.7%	Ilumae et al. 2016
		Mongolic	Buryats	Buryatia, Russia	80	2.5%	Karafet et al. 2018
		Mongolic	Buryats	Southern Siberia	217	0.5%	Derenko et al. 2007
		Mongolic	Buryats	Republic of Buryatia, Russia	298	0.3%	Kharkov et al. 2014

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-P43	References
Ob-Ugric							
		Uralic	Khanty	Siberia	27	77.8%	Mirabal et al. 2009
		Uralic	Mansi	Lower Ob River Valley, Russia	25	60.0%	Pimenoff et al. 2008
		Uralic	Khanty	Northwestern Siberia	57	52.6%	Rootsi et al. 2007
		Uralic	Khanty	Northwestern Siberia	47	38.3%	Karafet et al. 2002; Rootsi et al. 2007
		Uralic	Khanty	Yamalo-Nenets Autonomous Okrug, Russia	165	31.5%	Karafet et al. 2018
		Uralic	Khanty and Mansi	Western Siberia	63	27.0%	Illumae et al. 2016
		Uralic	Khanty	Lower Ob River Valley, Russia	28	25.0%	Pimenoff et al. 2008
Permian							
		Uralic	Komi	Northwestern Siberia	28	35.7%	Karafet et al. 2002; Rootsi et al. 2007
		Uralic	Komi (Syktyk distr.)	Komi Republic, Russia	17	35.3%	Illumae et al. 2016
		Uralic	Komi	Yamalo-Nenets Autonomous Okrug, Russia	78	29.5%	Karafet et al. 2018
		Uralic	Komi	Izhevsk, Russia	54	16.7%	Mirabal et al. 2009
		Uralic	Komi (Izhemsky distr.)	Komi Republic, Russia	30	16.7%	Illumae et al. 2016
		Uralic	Komi	Priluzski, Russia	49	14.3%	Mirabal et al. 2009
		Uralic	Komi (Permians)	Komi Republic, Russia	60	6.7%	Illumae et al. 2016
Samoyed							

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-P43	References
		Uralic	Nganasans	Northwestern Siberia	38	92.1%	Karafet et al. 2002; Rootsi et al. 2007
		Uralic	Nganasans	Taymyr, Russia	34	91.2%	Karafet et al. 2018
		Uralic	Nenets (Tundra)	Northwestern Siberia	59	74.6%	Karafet et al. 2002; Rootsi et al. 2007
		Uralic	Nenets	Western Siberia	42	69.0%	Ilumae et al. 2016
		Uralic	Nenets (Tundra)	Taymyr, Russia	47	63.8%	Karafet et al. 2018
		Uralic	Nganasans	Western Siberia	50	54.0%	Ilumae et al. 2016
		Uralic	Nenets (Forest)	Northwestern Siberia	89	44.9%	Karafet et al. 2002; Rootsi et al. 2007
		Uralic	Nenets (Forest)	Yamalo-Nenets Autonomous Okrug, Russia	82	43.9%	Karafet et al. 2018
		Uralic	Selkups	Western Siberia	43	7.0%	Ilumae et al. 2016
		Uralic	Selkups	Yamalo-Nenets Autonomous Okrug, Russia	129	7.0%	Karafet et al. 2018
		Uralic	Selkups	Northwestern Siberia	131	6.9%	Karafet et al. 2002; Rootsi et al. 2007
	Tungusic	Tungusic	Evenks	Southern Siberia	41	24.4%	Derenko et al. 2007
		Tungusic	Even	Sakha Republic	46	21.7%	Pakendorf et al. 2007
		Tungusic	Even	Central Siberia, Sakha Republic	24	8.3%	Fedorova et al. 2013; Ilumae et al. 2016
		Tungusic	Evenks	Central Siberia, Sakha Republic	57	5.3%	Fedorova et al. 2013; Ilumae et al. 2016
		Tungusic	Evenks	Krasnoyarsk Krai, Russia	91	3.3%	Karafet et al. 2018

Turkic

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-P43	References
		Turkic	Kumadins	Altai Republic	17	47.1%	Dulik et al. 2012
		Turkic	Tofalars	Southern Siberia	30	43.3%	Derenko et al. 2007
		Turkic	Khakas	Southern Siberia	64	34.4%	Derenko et al. 2007
		Turkic	Tuvans	Tuva Republic	419	25.1%	Kharkov et al. 2013
		Turkic	Dolgan (Taymyr)	Northern Siberia, Taymyr Peninsula	54	24.1%	Fedorova et al. 2013; Ilumae et al. 2016
		Turkic	Tuvans	Altai-Sayan Region	102	21.6%	Gubina et al. 2013
		Turkic	Tuvans	Southern Siberia	95	20.0%	Ilumae et al. 2016
		Turkic	Chelkans	Altai Republic	25	20.0%	Dulik et al. 2012
		Turkic	Tuvans	Southern Siberia	134	18.7%	Derenko et al. 2007
		Turkic	Tatars	Western Siberia	221	17.2%	Ilumae et al. 2016
		Turkic	Khakas	Altai-Sayan Region	176	17.0%	Gubina et al. 2013
		Turkic	Khakas	Southern Siberia	174	16.7%	Rootsi et al. 2007; Ilumae et al. 2016
		Turkic	Shors	Southern Siberia	38	15.8%	Derenko et al. 2007
		Turkic	Dolgan	Taymyr, Russia	57	14.0%	Karafet et al. 2018
		Turkic	Dolgan	Northwestern Siberia	67	11.9%	Karafet et al. 2002; Rootsi et al. 2007
		Turkic	Yakuts	Central Siberia, Sakha Republic	65	10.8%	Fedorova et al. 2013; Ilumae et al. 2016
		Turkic	Altai (Altaians, Altay)	Altai-Sayan Region	59	10.2%	Gubina et al. 2013
		Turkic	Tatars	Volga-Uralic	133	9.8%	Ilumae et al. 2016
		Turkic	Shors	Southern Siberia	23	8.7%	Rootsi et al. 2007; Ilumae et al. 2016
		Turkic	Altai (Altaians, Altay)	Altai Republic	61	8.2%	Ilumae et al. 2016

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-P43	References
		Turkic	Shors	Altai-Sayan Region	21	4.8%	Gubina et al. 2013
		Turkic	Yakuts	Siberia	121	2.5%	Kharkov 2005; Rootsi et al. 2007
		Turkic	Yakuts (Central)	Central Siberia, Sakha Republic	92	2.2%	Fedorova et al. 2013; Ilumae et al. 2016
		Turkic	Altai-Kizhi	Altai Republic, Russia	98	2.0%	Karafet et al. 2018
		Turkic	Altai (Altaians, Altay)	Altai Republic	120	1.7%	Dulik et al. 2012
		Turkic	Altai (Altaians, Altay)	Southern Siberia	142	0.7%	Derenko et al. 2007
Scandinavia	Finnic	Uralic	Finns	Finland	536	0.4%	Lappalainen et al. 2008

Supplementary Table 15.3. Contemporary Distribution of N1a-M46.

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-M46	References
Baltic							
	Baltic						
		Indo-European	Lithuanians	Lithuania	164	43.9%	Lappalainen et al. 2008
		Indo-European	Latvians	Latvia	86	41.9%	Tambets et al. 2004; Ilumae et al. 2016
		Indo-European	Latvians	Latvia	113	41.6%	Lappalainen et al. 2008
		Indo-European	Lithuanians	Lithuania	111	40.5%	Ilumae et al. 2016
		Indo-European	Lithuanians	Lithuania	196	36.7%	Kasperavičiūtė et al. 2004
	Finnic						
		Uralic	Karelians	Karelia Republic, Russia	132	53.0%	Lappalainen et al. 2008
		Uralic	Estonians	Estonia	119	33.6%	Lappalainen et al. 2008
		Uralic	Estonians	Estonia	235	27.7%	Rootsi et al. 2007; Ilumae et al. 2016
		Uralic	Karelians	Russia	139	16.5%	Rootsi et al. 2007; Ilumae et al. 2016
		Uralic	Veps	Russia	40	2.5%	Rootsi et al. 2007; Ilumae et al. 2016
	Sami						
		Uralic	Sami (Saami)	Kola Peninsula, Russia	23	39.1%	Tambets et al. 2004
	Slavic						
		Indo-European	Russians	Archangelsk, Russia	28	28.6%	Mirabal et al. 2009
		Indo-European	Russians	Arkhangelsk Oblast, Russia	42	28.6%	Fechner et al. 2008

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-M46	References
		Indo-European	Russians	Archangelsk, Russia	106	15.1%	Balanovsky et al. 2008; Ilumae et al. 2016
		Indo-European	Russians	Pinega	103	4.9%	Balanovsky et al. 2008; Ilumae et al. 2016
Caucasus							
	North Caucasian						
		North Caucasian	Cherkessians	Caucasus Russia	126	2.4%	Yunusbayev et al. 2012
		North Caucasian	Kabardians	Caucasus Russia	140	1.4%	Yunusbayev et al. 2012
	Turkic						
		Turkic	Nogais	Caucasus	119	11.8%	Ilumae et al. 2016
		Turkic	Nogais (Kara)	Caucasus Russia	76	2.6%	Yunusbayev et al. 2012
		Turkic	Nogais (Kuban)	Caucasus Russia	87	2.3%	Yunusbayev et al. 2012
Central Asia							
	Iranian						
		Indo-European	Tajik-Balkh	Afghanistan	54	1.9%	Di Cristofaro et al. 2013
	Turkic						
		Turkic	Kazakh (Shymkent)	Kazakhstan	55	16.4%	Zhabagin et al. 2017
		Turkic	Kazakh (Arys)	Kazakhstan	119	5.0%	Zhabagin et al. 2017
		Turkic	Karakalpak	Karakalpakstan	100	4.0%	Ilumae et al. 2016
		Turkic	Kazakhs	Kazakhstan	185	2.7%	Rootsi et al. 2007; Ilumae et al. 2016
		Turkic	Turkmen (Xo'jayli)	Uzbekistan	62	1.6%	Zhabagin et al. 2017
		Turkic	Uzbek (Fergana)	Uzbekistan	67	1.5%	Zhabagin et al. 2017
		Turkic	Uzbek-Jawzjan	Afghanistan	94	1.1%	Di Cristofaro et al. 2013
		Turkic	Uzbek (Xorezm)	Uzbekistan	98	1.0%	Zhabagin et al. 2017

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-M46	References	
East Asia		Turkic	Karakalpak	Uzbekistan	100	1.0%	Zhabagin et al. 2017	
		Turkic	Uzbeks	Uzbekistan	215	0.9%	Ilumae et al. 2016	
	Chinese							
		Sino-Tibetan	Han	Northwest China	44	2.3%	Hu et al. 2015	
		Sino-Tibetan	Han	Northern China	219	1.8%	Hu et al. 2015	
		Sino-Tibetan	Han	Shandong Province, China	874	1.6%	Hu et al. 2015	
		Sino-Tibetan	Hui	North-Central China	286	1.4%	Hu et al. 2015	
		Sino-Tibetan	Han	Northeastern China	84	1.2%	Hu et al. 2015	
		Sino-Tibetan	Han	South China	173	1.2%	Hu et al. 2015	
		Sino-Tibetan	Han	Eastern China	499	1.0%	Hu et al. 2015	
		Sino-Tibetan	Han	Gansu Province, China	1126	0.9%	Hu et al. 2015	
	Japonic							
		Japonic	Japanese	Japan	259	0.4%	Hammer et al. 2006	
	Mongolic							
	Mongolic	Mongols (Buriyad)	Hulunbuir Region	53	60.4%	Hu et al. 2015		
	Mongolic	Mongols (Bargod)	Hulunbuir Region	23	13.0%	Hu et al. 2015		
	Mongolic	Mongols	Northwestern Mongolia	97	12.4%	Di Cristofaro et al. 2013		
	Mongolic	Mongols	Northeastern Mongolia	20	10.0%	Di Cristofaro et al. 2013		
	Mongolic	Daur	Northeastern China	39	7.7%	Xue et al. 2006		

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-M46	References
		Mongolic	Mongols	Mongolia	381	6.6%	Ilumae et al. 2016
		Mongolic	Mongols	Ulaanbaatar, Mongolia	75	5.3%	Karafet et al. 2018
	Tibeto-Burman	Mongolic	Mongols (Ooled)	Hulunbuir Region	62	1.6%	Hu et al. 2015
		Sino-Tibetan	Horpa (Daofu)	Sichuan Province, China	16	12.5%	Wang et al. 2014
		Sino-Tibetan	Khams (Xinlong)	Sichuan Province, China	46	2.2%	Wang et al. 2014
		Sino-Tibetan	Queyu	Southern China	135	0.7%	Hu et al. 2015
		Sino-Tibetan	Tibetans	Ü-Tsang Province, Tibet	788	0.5%	Hu et al. 2015
		Sino-Tibetan	Tibetans	Kham Region, Tibet	429	0.2%	Hu et al. 2015
	Tungusic						
		Tungusic	Xibe	Northwestern China	41	4.9%	Xue et al. 2006
Eastern Europe							
	Mari						
		Uralic	Mari	Volga-Uralic	51	25.5%	Rootsi et al. 2007; Ilumae et al. 2016
	Mongolic						
		Mongolic	Kalmyks	Kalmyk Republic	426	10.1%	Malyarchuk et al. 2013
	Mordvin						
		Uralic	Mordvins (Pop 2)	Republic of Mordovia	203	11.3%	Ilumae et al. 2016

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-M46	References
Permian		Uralic	Mordvins (Pop 1)	Republic of Mordovia	60	5.0%	Ilumae et al. 2016
		Uralic	Udmurts	Volga-Uralic, Udmurtia	54	66.7%	Rootsi et al. 2007; Ilumae et al. 2016
Slavic		Indo-European	Russians	Pskov	40	35.0%	Malyarchuk and Derenko 2008
		Indo-European	Russians	Novgorod Oblast	40	27.5%	Fechner et al. 2008
		Indo-European	Russians	Ivanovo Oblast	40	22.5%	Fechner et al. 2008
		Indo-European	Russians	Oryol, Russia	36	19.4%	Malyarchuk and Derenko 2008
		Indo-European	Russians	Pskov	132	18.2%	Balanovsky et al. 2008; Ilumae et al. 2016
		Indo-European	Russians	Smolensk Oblast	43	16.3%	Fechner et al. 2008
		Indo-European	Russians	Bryansk Oblast	43	16.3%	Fechner et al. 2008
		Indo-European	Russians	Vologda Oblast	40	15.0%	Fechner et al. 2008
		Indo-European	Russians	Volot, Russia	40	15.0%	Malyarchuk and Derenko 2008
		Indo-European	Russians	Nizhni Novgorod, Russia	58	13.8%	Malyarchuk and Derenko 2008
		Indo-European	Russians	Veliki Novgorod, Russia	37	13.5%	Malyarchuk and Derenko 2008
		Indo-European	Russians	Tver, Russia	38	13.2%	Mirabal et al. 2009
		Indo-European	Russians	Kursk, Russia	40	12.5%	Mirabal et al. 2009
		Indo-European	Russians	Oryol Oblast	42	11.9%	Fechner et al. 2008
		Indo-European	Russians	Vladimir	51	11.8%	Malyarchuk and Derenko 2008
		Indo-European	Russians	Tula, Russia	43	11.6%	Malyarchuk and Derenko 2008
	Indo-European	Russians	Belgorod	143	11.2%	Balanovsky et al. 2008; Ilumae et al. 2016	

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-M46	References
		Indo-European	Russians	Lipetsk Oblast	47	10.6%	Fechner et al. 2008
		Indo-European	Russians	Penza Oblast	81	9.9%	Fechner et al. 2008
		Indo-European	Russians	Tver Oblast	43	9.3%	Fechner et al. 2008
		Indo-European	Belarusians	Belarus	267	9.0%	Kushniarevich et al. 2013; Ilumae et al. 2016
		Indo-European	Russians	Yaroslavl	23	8.7%	Malyarchuk and Derenko 2008
		Indo-European	Russians	Ryazan Oblast	36	8.3%	Fechner et al. 2008
		Indo-European	Ukrainians	Ukraine	566	7.4%	Rootsi et al. 2007; Ilumae et al. 2016
		Indo-European	Russians	Belgorod	44	6.8%	Malyarchuk and Derenko 2008
		Indo-European	Russians	Kursk, Russia	45	6.7%	Balanovsky et al. 2008; Ilumae et al. 2016
		Indo-European	Poles	Kurpie Region, Poland	158	6.3%	Rębała et al. 2013
		Indo-European	Russians	Tambov Oblast	48	6.3%	Fechner et al. 2008
		Indo-European	Russians	Smolensk	100	6.0%	Balanovsky et al. 2008; Ilumae et al. 2016
		Indo-European	Russians	Kaluga, Russia	42	4.8%	Malyarchuk and Derenko 2008
		Indo-European	Russians	Orjol	110	4.5%	Balanovsky et al. 2008; Ilumae et al. 2016
		Indo-European	Poles	Poland	93	4.3%	Rootsi et al. 2007; Ilumae et al. 2016
		Indo-European	Russians	Voronez	96	3.1%	Balanovsky et al. 2008; Ilumae et al. 2016
		Indo-European	Slovaks	Slovakia	164	3.0%	Rębała et al. 2013
		Indo-European	Slovaks	Slovakia	263	3.0%	Rootsi et al. 2007
		Indo-European	Russians	Kostroma	51	2.0%	Balanovsky et al. 2008; Ilumae et al. 2016

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-M46	References
		Indo-European	Czechs	Czech Republic	257	1.6%	Luca et al. 2007
	Turkic						
		Turkic	Chuvash	Volga-Uralic, Chuvash Republic	114	22.8%	Rootsi et al. 2007; Ilumae et al. 2016
		Turkic	Tatars (Crimean)	Crimea	277	4.3%	Ilumae et al. 2016
		Turkic	Bashkir	Bashkortostan	568	1.4%	Ilumae et al. 2016
Northern Eurasia							
	Chukotko- Kamchatkan						
		Chukotko- Kamchatkan	Chukchi	Eastern Siberia	46	54.3%	Ilumae et al. 2016
		Chukotko- Kamchatkan	Chukchi	Eastern Siberia	56	53.6%	Kharkov 2005; Rootsi et al. 2007
		Chukotko- Kamchatkan	Koryaks	Magadan Oblast	11	36.4%	Karafet et al. 2018
		Chukotko- Kamchatkan	Koryaks	Northeastern Siberia	12	33.3%	Karafet et al. 2002; Rootsi et al. 2007
		Chukotko- Kamchatkan	Koryaks	Southern Siberia	16	25.0%	Derenko et al. 2007
		Chukotko- Kamchatkan	Koryaks	Eastern Siberia	9	22.2%	Ilumae et al. 2016
		Chukotko- Kamchatkan	Koryaks	Eastern Siberia	36	22.2%	Kharkov 2005; Rootsi et al. 2007
	Eskimo-Aleut						
		Eskimo-Aleut	Yupik	Northeastern Siberia	22	54.5%	Karafet et al. 2002; Rootsi et al. 2007
		Eskimo-Aleut	Yupik	Eastern Siberia	17	35.3%	Ilumae et al. 2016

Mongolic

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-M46	References
		Mongolic	Buryats	Republic of Buryatia, Russia	298	47.7%	Kharkov et al. 2014
		Mongolic	Buryats	Buryat Republic	111	41.4%	Ilumae et al. 2016
		Mongolic	Buryats	Buryatia, Russia	80	28.8%	Karafet et al. 2018
		Mongolic	Buryats	Southern Siberia	217	18.4%	Derenko et al. 2007
	Ob-Ugric						
		Uralic	Khanty	Lower Ob River Valley, Russia	28	64.3%	Pimenoff et al. 2008
		Uralic	Khanty and Mansi	Western Siberia	63	42.9%	Ilumae et al. 2016
		Uralic	Khanty	Northwestern Siberia	47	38.3%	Karafet et al. 2002; Rootsi et al. 2007
		Uralic	Khanty	Yamalo-Nenets Autonomous Okrug, Russia	165	35.2%	Karafet et al. 2018
		Uralic	Khanty	Northwestern Siberia	57	26.3%	Rootsi et al. 2007
		Uralic	Mansi	Lower Ob River Valley, Russia	25	16.0%	Pimenoff et al. 2008
		Uralic	Khanty	Siberia	27	3.7%	Mirabal et al. 2009
	Permian						
		Uralic	Komi	Izhevsk, Russia	54	51.9%	Mirabal et al. 2009
		Uralic	Komi	Northwestern Siberia	28	50.0%	Karafet et al. 2002; Rootsi et al. 2007
		Uralic	Komi	Priluzski, Russia	49	46.9%	Mirabal et al. 2009
		Uralic	Komi (Izhemsky distr.)	Komi Republic, Russia	30	43.3%	Ilumae et al. 2016
		Uralic	Komi	Yamalo-Nenets Autonomous Okrug, Russia	78	37.2%	Karafet et al. 2018

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-M46	References
		Uralic	Komi (Syktyk distr.)	Komi Republic, Russia	17	29.4%	Ilumae et al. 2016
		Uralic	Komi (Permians)	Komi Republic, Russia	60	18.3%	Ilumae et al. 2016
Samoyed							
		Uralic	Nenets (Forest)	Northwestern Siberia	89	51.7%	Karafet et al. 2002; Rootsi et al. 2007
		Uralic	Nenets (Tundra)	Northwestern Siberia	59	23.7%	Karafet et al. 2002; Rootsi et al. 2007
		Uralic	Nenets	Western Siberia	42	14.3%	Ilumae et al. 2016
		Uralic	Nenets (Tundra)	Taymyr, Russia	47	4.3%	Karafet et al. 2018
		Uralic	Nganasans	Taymyr, Russia	34	2.9%	Karafet et al. 2018
		Uralic	Nganasans	Northwestern Siberia	38	2.6%	Karafet et al. 2002; Rootsi et al. 2007
		Uralic	Selkups	Western Siberia	43	2.3%	Ilumae et al. 2016
		Uralic	Nenets (Forest)	Yamalo-Nenets Autonomous Okrug, Russia	82	1.2%	Karafet et al. 2018
Tungusic							
		Tungusic	Evenks	Central Siberia, Sakha Republic	57	49.1%	Fedorova et al. 2013; Ilumae et al. 2016
		Tungusic	Even	Sakha Republic	46	47.8%	Pakendorf et al. 2007
		Tungusic	Nanai (Hezhe)	Eastern Siberia	130	44.6%	Ilumae et al. 2016
		Tungusic	Even	Central Siberia, Sakha Republic	24	37.5%	Fedorova et al. 2013; Ilumae et al. 2016
		Tungusic	Evenks	Krasnoyarsk Krai, Russia	91	16.5%	Karafet et al. 2018
		Tungusic	Evenks	Southern Siberia	41	4.9%	Derenko et al. 2007

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-M46	References
Turkic							
		Turkic	Yakuts	Yakutia, Russia	62	91.9%	Karafet et al. 2018
		Turkic	Yakuts (Vilyuy)	Central Siberia, Sakha Republic	59	91.5%	Fedorova et al. 2013; Ilumae et al. 2016
		Turkic	Yakuts	Siberia	121	89.3%	Kharkov 2005; Rootsi et al. 2007
		Turkic	Yakuts (Central)	Central Siberia, Sakha Republic	92	85.9%	Fedorova et al. 2013; Ilumae et al. 2016
		Turkic	Yakuts	Central Siberia, Sakha Republic	65	70.8%	Fedorova et al. 2013; Ilumae et al. 2016
		Turkic	Shors	Altai-Sayan Region	21	61.9%	Gubina et al. 2013
		Turkic	Dolgan (Yakutia)	Central Siberia, Sakha Republic	10	50.0%	Fedorova et al. 2013; Ilumae et al. 2016
		Turkic	Shors	Southern Siberia	23	30.4%	Rootsi et al. 2007; Ilumae et al. 2016
		Turkic	Khakas	Altai-Sayan Region	176	29.0%	Gubina et al. 2013
		Turkic	Tofalars	Southern Siberia	30	26.7%	Derenko et al. 2007
		Turkic	Teleut	Kemerovo Oblast	40	25.0%	Karafet et al. 2018
		Turkic	Khakas	Southern Siberia	174	24.7%	Rootsi et al. 2007; Ilumae et al. 2016
		Turkic	Dolgan	Northwestern Siberia	67	22.4%	Karafet et al. 2002; Rootsi et al. 2007
		Turkic	Tuvans	Altai-Sayan Region	102	20.6%	Gubina et al. 2013
		Turkic	Altai (Altaians, Altay)	Altai-Sayan Region	59	20.3%	Gubina et al. 2013
		Turkic	Altai (Altaians, Altay)	Altai Republic	61	19.7%	Ilumae et al. 2016

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-M46	References
		Turkic	Tuvans	Tuva Republic	419	18.4%	Kharkov et al. 2013
		Turkic	Khakas	Southern Siberia	64	15.6%	Derenko et al. 2007
		Turkic	Tuvans	Southern Siberia	95	13.7%	Ilumae et al. 2016
		Turkic	Dolgan (Taymyr)	Northern Siberia, Taymyr Peninsula	54	13.0%	Fedorova et al. 2013; Ilumae et al. 2016
		Turkic	Dolgan	Taymyr, Russia	57	12.3%	Karafet et al. 2018
		Turkic	Sojot	Southern Siberia	28	10.7%	Derenko et al. 2007
		Turkic	Tuvans	Southern Siberia	134	10.4%	Derenko et al. 2007
		Turkic	Altai (Altaians, Altay)	Southern Siberia	142	8.5%	Derenko et al. 2007
		Turkic	Tatars	Volga-Uralic	133	5.3%	Ilumae et al. 2016
		Turkic	Tatars	Western Siberia	221	5.0%	Ilumae et al. 2016
		Turkic	Shors	Southern Siberia	38	2.6%	Derenko et al. 2007
		Turkic	Altai (Altaians, Altay)	Altai Republic	120	2.5%	Dulik et al. 2012
		Turkic	Altai-Kizhi	Altai Republic, Russia	98	1.0%	Karafet et al. 2018
	Yukaghir						
		Yukaghir	Yukaghirs	Central Siberia, Sakha Republic	11	27.3%	Fedorova et al. 2013; Ilumae et al. 2016
		Yukaghir	Yukaghirs	Yakutia, Russia	10	10.0%	Karafet et al. 2018
Scandinavia							
	Finnic						
		Uralic	Finns	Finland	536	58.2%	Lappalainen et al. 2008
		Uralic	Finns	Finland	39	12.8%	Altshuler et al. 2010; Ilumae et al. 2016

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-M46	References
Germanic							
		Indo-European	Swedes	Sweden	160	14.4%	Lappalainen et al. 2008
		Indo-European	Swedes	Sweden	305	6.6%	Karlsson et al. 2006
		Indo-European	Norwegians	Norway	300	5.7%	Dupuy et al. 2001
Sami							
		Uralic	Sami (Saami)	Finland	69	55.1%	Tambets et al. 2004
		Uralic	Sami (Saami)	Sweden	38	44.7%	Karlsson et al. 2006
		Uralic	Sami (Saami)	Sweden	35	17.1%	Tambets et al. 2004; Ilumae et al. 2016

Supplementary Table 15.4. Contemporary Distribution of N1a-B211.

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-B211	References
Baltic							
	Finnic						
		Uralic	Karelians	Russia	139	0.72%	Rootsi et al. 2007; Ilumae et al. 2016
	Slavic						
		Indo-European	Russians	Archangelsk, Russia	106	0.94%	Balanovsky et al. 2008; Ilumae et al. 2016
Caucasus							
	Turkic						
		Turkic	Nogais	Caucasus	119	0.84%	Ilumae et al. 2016
Eastern Europe							
	Mari						
		Uralic	Mari	Volga-Uralic	51	13.73%	Rootsi et al. 2007; Ilumae et al. 2016
	Mordvin						
		Uralic	Mordvins (Pop 2)	Republic of Mordovia	203	10.34%	Ilumae et al. 2016
		Uralic	Mordvins (Pop 1)	Republic of Mordovia	60	5.00%	Ilumae et al. 2016
	Permian						
		Uralic	Udmurts	Volga-Uralic, Udmurtia	54	66.67%	Rootsi et al. 2007; Ilumae et al. 2016
	Slavic						
		Indo-European	Belarusians	Belarus	267	1.12%	Kushniarevich et al. 2013; Ilumae et al. 2016

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-B211	References
Northern Eurasia		Indo-European	Russians	Belgorod	143	0.70%	Balanovsky et al. 2008; Ilumae et al. 2016
		Turkic					
		Turkic	Chuvash	Volga-Uralic, Chuvash Republic	114	20.18%	Rootsi et al. 2007; Ilumae et al. 2016
		Turkic	Bashkir	Bashkortostan	568	0.70%	Ilumae et al. 2016
		Ob-Ugric					
		Uralic	Khanty and Mansi	Western Siberia	63	19.05%	Ilumae et al. 2016
		Permian					
		Uralic	Komi (Izhemsky distr.)	Komi Republic, Russia	30	43.33%	Ilumae et al. 2016
		Uralic	Komi (Syktyk distr.)	Komi Republic, Russia	17	17.65%	Ilumae et al. 2016
		Uralic	Komi (Permians)	Komi Republic, Russia	60	11.67%	Ilumae et al. 2016
	Turkic						
	Turkic	Altai (Altaians, Altay)	Altai Republic	61	6.56%	Ilumae et al. 2016	
	Turkic	Khakas	Southern Siberia	174	0.57%	Rootsi et al. 2007; Ilumae et al. 2016	

Supplementary Table 15.5. Contemporary Distribution of N1a-Z1936.

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-Z1936	References
Baltic							
	Baltic						
		Indo-European	Latvians	Latvia	86	1.2%	Tambets et al. 2004; Ilumae et al. 2016
	Finnic						
		Uralic	Veps	Russia	40	32.5%	Rootsi et al. 2007; Ilumae et al. 2016
		Uralic	Karelians	Russia	139	20.1%	Rootsi et al. 2007; Ilumae et al. 2016
		Uralic	Estonians	Estonia	235	3.0%	Rootsi et al. 2007; Ilumae et al. 2016
	Slavic						
		Indo-European	Russians	Archangelsk, Russia	106	22.6%	Balanovsky et al. 2008; Ilumae et al. 2016
		Indo-European	Russians	Pinega	103	19.4%	Balanovsky et al. 2008; Ilumae et al. 2016
Caucasus							
	Turkic						
		Turkic	Nogais	Caucasus	119	0.8%	Ilumae et al. 2016
Eastern Europe							
	Mordvin						
		Uralic	Mordvins (Pop 1)	Republic of Mordovia	60	5.0%	Ilumae et al. 2016
		Uralic	Mordvins (Pop 2)	Republic of Mordovia	203	2.0%	Ilumae et al. 2016
	Slavic						

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-Z1936	References
		Indo-European	Russians	Kostroma	51	9.8%	Balanovsky et al. 2008; Ilumae et al. 2016
		Indo-European	Russians	Kursk, Russia	45	6.7%	Balanovsky et al. 2008; Ilumae et al. 2016
		Indo-European	Russians	Pskov	132	3.8%	Balanovsky et al. 2008; Ilumae et al. 2016
		Indo-European	Russians	Voronez	96	3.1%	Balanovsky et al. 2008; Ilumae et al. 2016
		Indo-European	Ukrainians	Ukraine	566	1.1%	Rootsi et al. 2007; Ilumae et al. 2016
		Indo-European	Russians	Smolensk	100	1.0%	Balanovsky et al. 2008; Ilumae et al. 2016
	Turkic						
		Turkic	Bashkir	Bashkortostan	568	15.0%	Ilumae et al. 2016
		Turkic	Chuvash	Volga-Uralic, Chuvash Republic	114	3.5%	Rootsi et al. 2007; Ilumae et al. 2016
Northern Eurasia							
	Ob-Ugric						
		Uralic	Khanty	Yamalo-Nenets Autonomous Okrug, Russia	165	13.9%	Karafet et al. 2018
		Uralic	Khanty and Mansi	Western Siberia	63	7.9%	Ilumae et al. 2016
	Permian						
		Uralic	Komi	Yamalo-Nenets Autonomous Okrug, Russia	78	10.3%	Karafet et al. 2018
		Uralic	Komi (Izhemsky distr.)	Komi Republic, Russia	30	10.0%	Ilumae et al. 2016

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-Z1936	References
		Uralic	Komi (Syktyk distr.)	Komi Republic, Russia	17	5.9%	Ilumae et al. 2016
		Uralic	Komi (Permians)	Komi Republic, Russia	60	5.0%	Ilumae et al. 2016
	Samoyed						
		Uralic	Nenets (Forest)	Yamalo-Nenets Autonomous Okrug, Russia	82	53.7%	Karafet et al. 2018
		Uralic	Nenets (Tundra)	Taymyr, Russia	47	29.8%	Karafet et al. 2018
		Uralic	Nenets	Western Siberia	42	9.5%	Ilumae et al. 2016
		Uralic	Nganasans	Western Siberia	50	4.0%	Ilumae et al. 2016
	Turkic						
		Turkic	Tatars	Volga-Uralic	133	12.8%	Ilumae et al. 2016
		Turkic	Dolgan	Taymyr, Russia	57	12.3%	Karafet et al. 2018
		Turkic	Dolgan (Taymyr)	Northern Siberia, Taymyr Peninsula	54	7.4%	Fedorova et al. 2013; Ilumae et al. 2016
		Turkic	Tatars	Western Siberia	221	5.4%	Ilumae et al. 2016
Scandinavia							
	Finnic						
		Uralic	Finns	Finland	39	41.0%	Altshuler et al. 2010; Ilumae et al. 2016
	Sami						
		Uralic	Sami (Saami)	Sweden	35	20.0%	Tambets et al. 2004; Ilumae et al. 2016

Supplementary Table 15.6. Contemporary Distribution of N1a-M2019.

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-M2019	References
Caucasus							
	Turkic						
		Turkic	Nogais	Caucasus	119	2.5%	Ilumae et al. 2016
Central Asia							
	Turkic						
		Turkic	Karakalpak	Karakalpakstan	100	2.0%	Ilumae et al. 2016
		Turkic	Kazakhs	Kazakhstan	185	0.5%	Rootsi et al. 2007; Ilumae et al. 2016
		Turkic	Uzbeks	Uzbekistan	215	0.5%	Ilumae et al. 2016
East Asia							
	Mongolic						
		Mongolic	Mongols	Mongolia	381	0.3%	Ilumae et al. 2016
Eastern Europe							
	Slavic						
		Indo-European	Ukrainians	Ukraine	566	0.2%	Rootsi et al. 2007; Ilumae et al. 2016
Northern Eurasia							
	Ob-Ugric						
		Uralic	Khanty and Mansi	Western Siberia	63	12.7%	Ilumae et al. 2016
	Tungusic						
		Tungusic	Evenks	Central Siberia, Sakha Republic	57	47.4%	Fedorova et al. 2013; Ilumae et al. 2016
		Tungusic	Even	Central Siberia, Sakha Republic	24	29.2%	Fedorova et al. 2013; Ilumae et al. 2016
	Turkic						

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-M2019	References
		Turkic	Yakuts (Vilyuy)	Central Siberia, Sakha Republic	59	89.8%	Fedorova et al. 2013; Ilumae et al. 2016
		Turkic	Yakuts (Central)	Central Siberia, Sakha Republic	92	85.9%	Fedorova et al. 2013; Ilumae et al. 2016
		Turkic	Yakuts	Central Siberia, Sakha Republic	65	69.2%	Fedorova et al. 2013; Ilumae et al. 2016
		Turkic	Dolgan (Yakutia)	Central Siberia, Sakha Republic	10	50.0%	Fedorova et al. 2013; Ilumae et al. 2016
		Turkic	Shors	Southern Siberia	23	4.3%	Rootsi et al. 2007; Ilumae et al. 2016
		Turkic	Dolgan (Taymyr)	Northern Siberia, Taymyr Peninsula	54	3.7%	Fedorova et al. 2013; Ilumae et al. 2016
		Turkic	Tuvans	Southern Siberia	95	1.1%	Ilumae et al. 2016
		Turkic	Tatars	Western Siberia	221	0.9%	Ilumae et al. 2016

Supplementary Table 15.7. Contemporary Distribution of N1a-VL29.

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-VL29	References
Baltic							
	Baltic						
		Indo-European	Lithuanians	Lithuania	111	39.6%	Ilumae et al. 2016
		Indo-European	Latvians	Latvia	86	38.4%	Tambets et al. 2004; Ilumae et al. 2016
	Finnic						
		Uralic	Estonians	Estonia	235	27.7%	Rootsi et al. 2007; Ilumae et al. 2016
		Uralic	Karelians	Russia	139	15.1%	Rootsi et al. 2007; Ilumae et al. 2016
		Uralic	Veps	Russia	40	2.5%	Rootsi et al. 2007; Ilumae et al. 2016
	Slavic						
		Indo-European	Russians	Archangelsk, Russia	106	13.2%	Balanovsky et al. 2008; Ilumae et al. 2016
		Indo-European	Russians	Pinega	103	3.9%	Balanovsky et al. 2008; Ilumae et al. 2016
Caucasus							
	Turkic						
		Turkic	Nogais	Caucasus	119	1.7%	Ilumae et al. 2016
Eastern Europe							
	Mari						
		Uralic	Mari	Volga-Uralic	51	11.8%	Rootsi et al. 2007; Ilumae et al. 2016
	Mordvin						

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-VL29	References	
Northern Eurasia	Slavic	Uralic	Mordvins (Pop 2)	Republic of Mordovia	203	1.0%	Illumae et al. 2016	
		Indo-European	Russians	Pskov	132	18.2%	Balanovsky et al. 2008; Illumae et al. 2016	
		Indo-European	Russians	Belgorod	143	9.1%	Balanovsky et al. 2008; Illumae et al. 2016	
		Indo-European	Belarusians	Belarus	267	7.9%	Kushniarevich et al. 2013; Illumae et al. 2016	
		Indo-European	Ukrainians	Ukraine	566	6.9%	Rootsi et al. 2007; Illumae et al. 2016	
		Indo-European	Russians	Kursk, Russia	45	6.7%	Balanovsky et al. 2008; Illumae et al. 2016	
		Indo-European	Russians	Smolensk	100	6.0%	Balanovsky et al. 2008; Illumae et al. 2016	
		Indo-European	Russians	Orjol	110	4.5%	Balanovsky et al. 2008; Illumae et al. 2016	
		Indo-European	Poles	Poland	93	4.3%	Rootsi et al. 2007; Illumae et al. 2016	
		Indo-European	Russians	Voronez	96	3.1%	Balanovsky et al. 2008; Illumae et al. 2016	
		Indo-European	Russians	Kostroma	51	2.0%	Balanovsky et al. 2008; Illumae et al. 2016	
		Turkic	Turkic	Tatars (Crimean)	Crimea	277	2.9%	Illumae et al. 2016
			Turkic	Chuvash	Volga-Uralic, Chuvash Republic	114	2.6%	Rootsi et al. 2007; Illumae et al. 2016
Turkic	Bashkir		Bashkortostan	568	0.7%	Illumae et al. 2016		

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-VL29	References
	Ob-Ugric						
		Uralic	Khanty	Yamalo-Nenets Autonomous Okrug, Russia	165	1.2%	Karafet et al. 2018
	Permian						
		Uralic	Komi (Syktyk distr.)	Komi Republic, Russia	17	11.8%	Illumae et al. 2016
		Uralic	Komi	Yamalo-Nenets Autonomous Okrug, Russia	78	10.3%	Karafet et al. 2018
		Uralic	Komi (Permians)	Komi Republic, Russia	60	1.7%	Illumae et al. 2016
	Samoyed						
		Uralic	Nenets	Western Siberia	42	14.3%	Illumae et al. 2016
		Uralic	Nganasans	Taymyr, Russia	34	2.9%	Karafet et al. 2018
		Uralic	Selkups	Western Siberia	43	2.3%	Illumae et al. 2016
	Turkic						
		Turkic	Tatars	Volga-Uralic	133	3.8%	Illumae et al. 2016
		Turkic	Dolgan (Taymyr)	Northern Siberia, Taymyr Peninsula	54	3.7%	Fedorova et al. 2013; Illumae et al. 2016
		Turkic	Tatars	Western Siberia	221	1.4%	Illumae et al. 2016
Scandinavia							
	Finnic						
		Uralic	Finns	Finland	39	12.8%	Altshuler et al. 2010; Illumae et al. 2016
	Sami						
		Uralic	Sami (Saami)	Sweden	35	17.1%	Tambets et al. 2004; Illumae et al. 2016

Supplementary Table 15.8. Contemporary Distribution of N1a-F4205.

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-F4205	References
Caucasus							
	Turkic						
		Turkic	Nogais	Caucasus	119	6.7%	Ilumae et al. 2016
Central Asia							
	Turkic						
		Turkic	Kazakhs	Kazakhstan	185	2.2%	Rootsi et al. 2007; Ilumae et al. 2016
		Turkic	Karakalpak	Karakalpakstan	100	1.0%	Ilumae et al. 2016
		Turkic	Uzbeks	Uzbekistan	215	0.5%	Ilumae et al. 2016
East Asia							
	Chinese						
		Sino-Tibetan	Hui	North-Central China	286	0.3%	Hu et al. 2015
	Mongolic						
		Mongolic	Mongols (Buriyad)	Hulunbuir Region	53	47.2%	Hu et al. 2015
		Mongolic	Mongols	Mongolia	381	6.3%	Ilumae et al. 2016
		Mongolic	Mongols (Bargod)	Hulunbuir Region	23	4.3%	Hu et al. 2015
Eastern Europe							
	Slavic						
		Indo-European	Ukrainians	Ukraine	566	0.2%	Rootsi et al. 2007; Ilumae et al. 2016
	Turkic						
		Turkic	Tatars (Crimean)	Crimea	277	1.1%	Ilumae et al. 2016
Northern Eurasia							

Region	Language Group	Language Family	Population	Location	Sample Size	N1a-F4205	References
	Mongolic						
		Mongolic	Buryats	Buryat Republic	111	41.4%	Ilumae et al. 2016
	Turkic						
		Turkic	Tuvans	Southern Siberia	95	6.3%	Ilumae et al. 2016
		Turkic	Altai (Altaians, Altay)	Altai Republic	61	3.3%	Ilumae et al. 2016
		Turkic	Tatars	Western Siberia	221	2.3%	Ilumae et al. 2016

Supplementary Table 15.9. Contemporary Distribution of N1a-B202.

Region	Language Family	Population	Location	Sample Size	N1a-B202	References
Northern Eurasia	Chukotko-Kamchatkan	Chukchi	Eastern Siberia	46	47.8%	Ilumae et al. 2016
Northern Eurasia	Chukotko-Kamchatkan	Koryaks	Eastern Siberia	9	22.2%	Ilumae et al. 2016
Northern Eurasia	Eskimo-Aleut	Yupik	Eastern Siberia	17	23.5%	Ilumae et al. 2016

Supplementary Table 15.10. Ancient Y-Chromosome Mutations and the Northern Route.

Region	Master ID	Culture 2	Country	Location	Death	Mutation	Reference
East Asia	Tianyuan	Paleolithic	China	Tianyuan	39475	K2b-P331	Yang et al. 2017; Reich Dataset V42.4 (2020)
Eastern Europe	CC7-335	Paleolithic	Bulgaria	Bacho Kiro Cave	44255	C1-F3393	Hajdinjak et al. 2021
	BB7-240	Paleolithic	Bulgaria	Bacho Kiro Cave	44255	C1-F3393	Hajdinjak et al. 2021
	F6-620	Paleolithic	Bulgaria	Bacho Kiro Cave	44255	F-M89	Hajdinjak et al. 2021
	Oase1	Paleolithic	Romania	Oase Cave	39610	NO-M214	Fu et al. 2015; Poznik et al. 2016
	Kostenki14	Paleolithic	Russia	Kostenki	37470	C1b-F1370	Fu et al. 2016; Reich Dataset V42.4 (2020)
	Sunghir2	Paleolithic	Russia	Sunghir	34234	C1a-V20	Sikora et al. 2017; Reich Dataset V42.4 (2020)
	Sunghir3	Paleolithic	Russia	Sunghir	34093	C1a-V20	Sikora et al. 2017; Reich Dataset V42.4 (2020)
	Sunghir4	Paleolithic	Russia	Sunghir	33992	C1a-V20	Sikora et al. 2017; Reich Dataset V42.4 (2020)
	Sunghir1	Paleolithic	Russia	Sunghir	32823	C1a-V20	Sikora et al. 2017; Reich Dataset V42.4 (2020)
	Kostenki12	Paleolithic	Russia	Kostenki	32415	C-M130	Fu et al. 2016; Reich Dataset V42.4 (2020)
	Vestonice13	Paleolithic	Czech Republic	Dolni Vestonice	30870	C-M130	Fu et al. 2016; Reich Dataset V42.4 (2020)
	Vestonice16	Paleolithic	Czech Republic	Dolni Vestonice	30010	C1a-V20	Fu et al. 2016; Reich Dataset V42.4 (2020)
	Vestonice43	Paleolithic	Czech Republic	Dolni Vestonice	30010	F-M89	Fu et al. 2016; Reich Dataset V42.4 (2020)

Region	Master ID	Culture 2	Country	Location	Death	Mutation	Reference
Northern Eurasia							
	Ust_Ishim	Paleolithic	Russia	Ust'-Ishim, Siberia	45020	NO-M214	Fu et al. 2014; Ilumae et al. 2016; Poznik et al. 2016
	Yana2	Paleolithic	Russia	Yana RHS	31950	P1-M45	Sikora et al. 2019; Reich Dataset V42.4 (2020)
	Yana1	Paleolithic	Russia	Yana RHS	31950	P1-M45	Sikora et al. 2019; Reich Dataset V42.4 (2020)
Western Europe							
	GoyetQ116-1	Paleolithic	Belgium	Troisieme caverne of Goyet cave	34795	C1a-V20	Fu et al. 2016; Reich Dataset V42.4 (2020)

Supplementary Table 15.11. Distribution of Ancient Haplogroup N-M231 Mutations.

Region	Mutation	Master ID	Culture 2	Country	Location	Death	Reference
Baltic							
	N1a-L393						
		OLS10	Iron Age	Estonia	Laane-Viru, Hiiemagi at Kunda, tarand III, burial 9	2615	Saag et al. 2019; Reich Dataset V42.4 (2020)
	N1a-M178						
		BOO002	Other	Russia	Murmansk, Bolshoy Oleniy Ostrov	3475	Lamnidis et al. 2018; Reich Dataset V42.4 (2020)
		BOO004	Other	Russia	Murmansk, Bolshoy Oleniy Ostrov	3475	Lamnidis et al. 2018; Reich Dataset V42.4 (2020)
	N1a-VL29						
		VII4	Iron Age	Estonia	Laane-Viru, Tandemagi IV at Vohma, tarand 2	2530	Saag et al. 2019; Reich Dataset V42.4 (2020)
		V12	Iron Age	Estonia	Saare, Kurevere, tarand VII	2150	Saag et al. 2019; Reich Dataset V42.4 (2020)
Central Asia							
	N1a-F1206						
		I11735	Bronze Age	Kazakhstan	Mereke, Taskala district, Zapadno-Kazahstanskaya Oblast	4331	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
		I11737	Bronze Age	Kazakhstan	Mereke, Taskala district, Zapadno-Kazahstanskaya Oblast	4064	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)

Region	Mutation	Master ID	Culture 2	Country	Location	Death	Reference
East Asia							
	N1a-M178	ARS003	Bronze Age	Mongolia	Eastern Steppe, Khovsgol aimag, Arbulag sorum	3225	Jeong et al. 2018; Reich Dataset V42.4 (2020)
	N-M231	Th519	Iron Age	Thailand	Northern Mae Hong Son, Long Long Rak	1720	McColl et al. 2018; Reich Dataset V42.4 (2020)
Eastern Europe							
	N-M231	I1503	Iron Age	Hungary	Ludas-Varju-Dulo	2855	Gamba et al. 2014; Reich Dataset V42.4 (2020)
Northern Eurasia							
	N1a-L666	DA245	Neolithic	Russia	Shamanka II, South Baikal	7941	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
		DA248	Neolithic	Russia	Shamanka II, South Baikal	7645	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
		DA362	Bronze Age	Russia	Shamanka II, South Baikal	7242	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
	N1a-M46	DA359	Neolithic	Russia	Lokomotiv, Angara Valley, Lake Baikal	7559	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
		DA345	Neolithic	Russia	Ust'-Ida, Angara Valley, Lake Baikal	5456	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
	N1a-P43						

Region	Mutation	Master ID	Culture 2	Country	Location	Death	Reference
		RISE554	Bronze Age	Russia	Afontova Gora, Krasnoyarsk, Siberia	2875	Allentoft et al. 2015; Reich Dataset V42.4 (2020)

Supplementary Table 15.12. N1a-M46 among Reindeer-Herding Populations.

Region	Family	Population	Location	Sample Size	Frequency N1a-M46	References
Baltic						
	Uralic					
		Sami (Saami)	Kola Peninsula, Russia	23	39.1%	Tambets et al. 2004
Northern Eurasia						
	Chukotko-Kamchatkan					
		Chukchi	Eastern Siberia	46	54.3%	Ilumae et al. 2016
		Chukchi	Eastern Siberia	56	53.6%	Kharkov 2005; Rootsi et al. 2007
		Koryaks	Magadan Oblast	11	36.4%	Karafet et al. 2018
		Koryaks	Northeastern Siberia	12	33.3%	Karafet et al. 2002; Rootsi et al. 2007
		Koryaks	Southern Siberia	16	25.0%	Derenko et al. 2007
		Koryaks	Eastern Siberia	9	22.2%	Ilumae et al. 2016
		Koryaks	Eastern Siberia	36	22.2%	Kharkov 2005; Rootsi et al. 2007
	Tungusic					
		Evenks	Central Siberia, Sakha Republic	57	49.1%	Fedorova et al. 2013; Ilumae et al. 2016
		Even	Sakha Republic	46	47.8%	Pakendorf et al. 2007
		Even	Central Siberia, Sakha Republic	24	37.5%	Fedorova et al. 2013; Ilumae et al. 2016
		Evenks	Krasnoyarsk Krai, Russia	91	16.5%	Karafet et al. 2018
		Evenks	Southern Siberia	41	4.9%	Derenko et al. 2007
	Turkic					

Region	Family	Population	Location	Sample Size	Frequency N1a-M46	References
		Yakuts	Yakutia, Russia	62	91.9%	Karafet et al. 2018
		Yakuts (Vilyuy)	Central Siberia, Sakha Republic	59	91.5%	Fedorova et al. 2013; Ilumae et al. 2016
		Yakuts	Siberia	121	89.3%	Kharkov 2005; Rootsi et al. 2007
		Yakuts (Central)	Central Siberia, Sakha Republic	92	85.9%	Fedorova et al. 2013; Ilumae et al. 2016
		Yakuts	Central Siberia, Sakha Republic	65	70.8%	Fedorova et al. 2013; Ilumae et al. 2016
		Dolgan (Yakutia)	Central Siberia, Sakha Republic	10	50.0%	Fedorova et al. 2013; Ilumae et al. 2016
		Tofalars	Southern Siberia	30	26.7%	Derenko et al. 2007
		Dolgan	Northwestern Siberia	67	22.4%	Karafet et al. 2002; Rootsi et al. 2007
		Tuvans	Altai-Sayan Region	102	20.6%	Gubina et al. 2013
		Tuvans	Tuva Republic	419	18.4%	Kharkov et al. 2013
		Tuvans	Southern Siberia	95	13.7%	Ilumae et al. 2016
		Dolgan (Taymyr)	Northern Siberia, Taymyr Peninsula	54	13.0%	Fedorova et al. 2013; Ilumae et al. 2016
		Dolgan	Taymyr, Russia	57	12.3%	Karafet et al. 2018
		Sojot	Southern Siberia	28	10.7%	Derenko et al. 2007
		Tuvans	Southern Siberia	134	10.4%	Derenko et al. 2007
	Uralic					
		Khanty	Lower Ob River Valley, Russia	28	64.3%	Pimenoff et al. 2008
		Komi	Izhevsk, Russia	54	51.9%	Mirabal et al. 2009
		Nenets (Forest)	Northwestern Siberia	89	51.7%	Karafet et al. 2002; Rootsi et al. 2007

Region	Family	Population	Location	Sample Size	Frequency N1a-M46	References
		Komi	Northwestern Siberia	28	50.0%	Karafet et al. 2002; Rootsi et al. 2007
		Komi	Priluzski, Russia	49	46.9%	Mirabal et al. 2009
		Komi (Izhemsky distr.)	Komi Republic, Russia	30	43.3%	Ilumae et al. 2016
		Khanty and Mansi	Western Siberia	63	42.9%	Ilumae et al. 2016
		Khanty	Northwestern Siberia	47	38.3%	Karafet et al. 2002; Rootsi et al. 2007
		Komi	Yamalo-Nenets Autonomous Okrug, Russia	78	37.2%	Karafet et al. 2018
		Khanty	Yamalo-Nenets Autonomous Okrug, Russia	165	35.2%	Karafet et al. 2018
		Komi (Syktyk distr.)	Komi Republic, Russia	17	29.4%	Ilumae et al. 2016
		Khanty	Northwestern Siberia	57	26.3%	Rootsi et al. 2007
		Nenets (Tundra)	Northwestern Siberia	59	23.7%	Karafet et al. 2002; Rootsi et al. 2007
		Komi (Permians)	Komi Republic, Russia	60	18.3%	Ilumae et al. 2016
		Nenets	Western Siberia	42	14.3%	Ilumae et al. 2016
		Nenets (Tundra)	Taymyr, Russia	47	4.3%	Karafet et al. 2018
		Khanty	Siberia	27	3.7%	Mirabal et al. 2009
		Nganasans	Taymyr, Russia	34	2.9%	Karafet et al. 2018
		Nganasans	Northwestern Siberia	38	2.6%	Karafet et al. 2002; Rootsi et al. 2007
		Selkups	Western Siberia	43	2.3%	Ilumae et al. 2016

Region	Family	Population	Location	Sample Size	Frequency N1a-M46	References
		Nenets (Forest)	Yamalo-Nenets Autonomous Okrug, Russia	82	1.2%	Karafet et al. 2018
		Selkups	Northwestern Siberia	131	0.0%	Karafet et al. 2002; Rootsi et al. 2007
		Nganasans	Western Siberia	50	0.0%	Ilumae et al. 2016
		Selkups	Yamalo-Nenets Autonomous Okrug, Russia	129	0.0%	Karafet et al. 2018
	Yukaghir					
		Yukaghirs	Central Siberia, Sakha Republic	11	27.3%	Fedorova et al. 2013; Ilumae et al. 2016
		Yukaghirs	Yakutia, Russia	10	10.0%	Karafet et al. 2018
Scandinavia						
	Uralic					
		Sami (Saami)	Finland	69	55.1%	Tambets et al. 2004
		Sami (Saami)	Sweden	38	44.7%	Karlsson et al. 2006
		Sami (Saami)	Sweden	35	17.1%	Tambets et al. 2004; Ilumae et al. 2016

Supplementary Table 15.13. Contemporary Distribution of N1a-M128.

Region	Language Group	Family	Population	Location	Sample Size	N1a-M128	References
Central Asia							
	Turkic						
		Turkic	Kazakh (Kazaly)	Kazakhstan	81	2.5%	Zhabagin et al. 2017
		Turkic	Karakalpak	Uzbekistan	100	1.0%	Zhabagin et al. 2017
East Asia							
	Chinese						
		Sino-Tibetan	Han	Heilongjiang Province	34	5.9%	Hu et al. 2015
		Sino-Tibetan	Han	Shandong Province, China	874	1.9%	Hu et al. 2015
		Sino-Tibetan	Han	Northern China	219	1.4%	Hu et al. 2015
		Sino-Tibetan	Han	Gansu Province, China	1126	1.2%	Hu et al. 2015
		Sino-Tibetan	Han	Eastern China	499	1.2%	Hu et al. 2015
		Sino-Tibetan	Han	Northeastern China	84	1.2%	Hu et al. 2015
		Sino-Tibetan	Han	South China	173	1.2%	Hu et al. 2015
		Sino-Tibetan	Hui	North-Central China	286	0.3%	Hu et al. 2015
	Mongolic						
		Mongolic	Mongols (Bargod)	Hulunbuir Region	23	4.3%	Hu et al. 2015
		Mongolic	Mongols	Southeastern Mongolia	23	4.3%	Di Cristofaro et al. 2013
		Mongolic	Mongols (Ooled)	Hulunbuir Region	62	1.6%	Hu et al. 2015
	Tai-Kadai						
		Tai-Kadai	Bouyei (Buyi)	South-Central China	35	5.7%	Xue et al. 2006
	Tibeto-Burman						
		Sino-Tibetan	Tibetans	Gansu Province, China	264	0.8%	Hu et al. 2015

Region	Language Group	Family	Population	Location	Sample Size	N1a-M128	References
		Sino-Tibetan	Qiang	Central China	149	0.7%	Hu et al. 2015
	Tungusic						
		Tungusic	Manchu	Eastern China	35	5.7%	Xue et al. 2006
		Tungusic	Xibe	Northwestern China	41	2.4%	Xue et al. 2006
South Asia							
	Indo-Aryan						
		Indo-European	Chakma	Bangladesh	89	6.7%	Gazi et al. 2013
	Tibeto-Burman						
		Sino-Tibetan	Tripuri	Bangladesh	88	4.5%	Gazi et al. 2013

Supplementary Table 15.14. Contemporary Distribution of N1a-B187.

Region	Language Group	Family	Population	Location	Sample Size	N1a-B187	References
Northern Eurasia	Turkic	Turkic	Shors	Southern Siberia	23	26.1%	Rootsi et al. 2007; Ilumae et al. 2016
Northern Eurasia	Turkic	Turkic	Khakas	Southern Siberia	174	23.6%	Rootsi et al. 2007; Ilumae et al. 2016
Northern Eurasia	Turkic	Turkic	Altai (Altaians, Altay)	Altai Republic	61	9.8%	Ilumae et al. 2016
Northern Eurasia	Turkic	Turkic	Tuvans	Southern Siberia	95	6.3%	Ilumae et al. 2016
Northern Eurasia	Turkic	Turkic	Tatars	Volga-Uralic	133	0.8%	Ilumae et al. 2016

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Supplementary Tables for Chapter Sixteen and Haplogroup O-M175



Supplementary Table 16.1. Contemporary Distribution of Haplogroup O-M175.

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
Central Asia							
	Chinese						
		Chinese	Dungan	Uzbekistan-Tashkent	31	45%	Zhabagin et al. 2017
	Turkic						
		Turkic	Uzbek	Uzbekistan-Fergana Region	67	13%	Zhabagin et al. 2017
East Asia							
	Central Tibeto-Burman						
		Tibeto-Burman	Deng	Tibet	90	96%	Kang et al. 2012
		Tibeto-Burman	Tibetans	Tibet, Shannan, China	251	47%	Wang et al. 2013
		Tibeto-Burman	Tibetans	Tibet, Nagqu, China	258	45%	Wang et al. 2013
		Tibeto-Burman	Tibetans	Tibet, Lhasa, China	278	33%	Wang et al. 2013
		Tibeto-Burman	Tibetans	Qinghai, Xi'ning, China	128	28%	Wang et al. 2013
		Tibeto-Burman	Tibetan Amdo	Zhangye, Gansu, China	265	22%	Wang et al. 2013
	Chinese						
		Chinese	Han	Jiangxi, China	26	100%	Zhong et al. 2011
		Chinese	Han	Guangxi, China	82	100%	Zhao et al. 2010
		Chinese	Pinghua	Nanning, Guangxi, China	38	100%	Lu et al. 2013
		Chinese	Han	Chendu, China	34	97%	Xue et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Chinese	Han	Guangxi, China	27	96%	Zhong et al. 2011
		Chinese	Pinghua	Tiandong, Guangxi, China	20	95%	Lu et al. 2013
		Chinese	Bái	Hunan Province, Central China	14	93%	Xia et al. 2019
		Chinese	Pinghua	Pingguo, Guangxi, China	123	92%	Lu et al. 2013
		Chinese	Pinghua	Guangxi, China	101	90%	Gan et al. 2008
		Chinese	Han	Shanghai, China	39	90%	Wang et al. 2013
		Chinese	Taiwanese Han	Taiwan, China	352	89%	Trejaut et al. 2014
		Chinese	Pinghua-Han	Guangxi, China	101	89%	Wang et al. 2013
		Chinese	Han	Zhejiang, China	70	89%	Wang et al. 2013
		Chinese	Han	Jiangxi, China	33	88%	Wang et al. 2013
		Chinese	Han	Hunan, China	24	88%	Wang et al. 2013
		Chinese	Han	Anhui, China	72	88%	Wang et al. 2013
		Chinese	Han	Yunnan, China	53	87%	Zhong et al. 2011
		Chinese	Han	Guangxi, China	59	86%	Wang et al. 2013
		Chinese	Gàn	Hunan Province, Central China	103	86%	Xia et al. 2019
		Chinese	Han	Chongqing, China	43	86%	Zhong et al. 2011
		Chinese	Han	Hubei, China	57	86%	Zhong et al. 2011
		Chinese	Hakka	Hunan Province, Central China	113	86%	Xia et al. 2019
		Chinese	Han	Meixian, China	35	86%	Xue et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Chinese	Han	Zhejiang, China	55	85%	Zhong et al. 2011
		Chinese	Han	Shanghe, Shandong, China	48	85%	Wang et al. 2013
		Chinese	Han	Guizhou, China	107	85%	Zhong et al. 2011
		Chinese	Han	Guangdong, China	33	85%	Zhong et al. 2011
		Chinese	Han	Sichuan, China	38	84%	Zhong et al. 2011
		Chinese	SW Mandarin	Hunan Province, Central China	99	84%	Xia et al. 2019
		Chinese	Han	Jiangsu, China	179	82%	Wang et al. 2013
		Chinese	Xiāng	Hunan Province, Central China	148	82%	Xia et al. 2019
		Chinese	Han	Hunan, China	38	82%	Zhong et al. 2011
		Chinese	Han	China	165	81%	Karafet et al. 2010
		Chinese	Han	Fujian, China	43	79%	Zhong et al. 2011
		Chinese	Han	Zhitai, Shandong, China	43	79%	Wang et al. 2013
		Chinese	Han	Jilin, China	33	79%	Zhong et al. 2011
		Chinese	Han	Beijing, China	51	78%	Kim et al. 2011
		Chinese	Han	Lijin, Shandong, China	59	78%	Wang et al. 2013
		Chinese	Han	Feixian, Shandong, China	35	77%	Wang et al. 2013
		Chinese	Han	Harbin, China	35	77%	Xue et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Chinese	Han	Mouping, Shandong, China	48	77%	Wang et al. 2013
		Chinese	Tǔhuà	Hunan Province, Central China	17	76%	Xia et al. 2019
		Chinese	Han	Gaotang, Shandong, China	29	76%	Wang et al. 2013
		Chinese	Han	Sichuan, China	137	75%	Wang et al. 2013
		Chinese	Han	Dongming, Shandong, China	40	75%	Wang et al. 2013
		Chinese	Han	Henan, China	27	74%	Wang et al. 2013
		Chinese	Han	Guangrao, Shandong, China	23	74%	Wang et al. 2013
		Chinese	Han	Jiangsu, China	38	74%	Zhong et al. 2011
		Chinese	Han	Heilongjiang, China	67	73%	Zhong et al. 2011
		Chinese	Han	Dezhou, Shandong, China	51	73%	Wang et al. 2013
		Chinese	Han	Beijing	65	72%	Hong et al. 2006
		Chinese	Han	Linshu, Shandong, China	53	72%	Wang et al. 2013
		Chinese	Han	Yiyuan, Shandong, China	28	71%	Wang et al. 2013

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Chinese	Han	Cangshan, Shandong, China	52	71%	Wang et al. 2013
		Chinese	Han	Shandong, China	52	71%	Zhong et al. 2011
		Chinese	Huí	Hunan Province, Central China	34	71%	Xia et al. 2019
		Chinese	Han	Shandong,China	54	70%	Wang et al. 2013
		Chinese	Han	Gansu, China	49	69%	Zhong et al. 2011
		Chinese	Han	Yili, China	32	69%	Xue et al. 2006
		Chinese	Han	Penglai, Shandong, China	87	67%	Wang et al. 2013
		Chinese	Han	Yanzhou, Shandong, China	24	67%	Wang et al. 2013
		Chinese	Han	Zhangqiu, Shandong, China	48	67%	Wang et al. 2013
		Chinese	Han	Yunnan	41	66%	Hong et al. 2006
		Chinese	Han	Anhui, China	52	65%	Zhong et al. 2011
		Chinese	Han	Longnan, Gansu, China	121	65%	Wang et al. 2013
		Chinese	Han	Henan, China	45	64%	Zhong et al. 2011
		Chinese	Han	Qingyang, Gansu, China	61	64%	Wang et al. 2013
		Chinese	Han	Jilin, China	36	64%	Wang et al. 2013

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Chinese	Han	Qingzhou, Shandong, China	22	64%	Wang et al. 2013
		Chinese	Han	Lanzhou, Gansu, China	100	63%	Wang et al. 2013
		Chinese	Han	Liaoning, China	40	63%	Zhong et al. 2011
		Chinese	Han	Pingliang, Gansu, China	203	62%	Wang et al. 2013
		Chinese	Wǎxiāng	Hunan Province, Central China	39	62%	Xia et al. 2019
		Chinese	Han	Dingxi, Gansu, China	166	61%	Wang et al. 2013
		Chinese	Han	Tianshui, Gansu, China	353	61%	Wang et al. 2013
		Chinese	Han	Ningjin, Shandong, China	45	60%	Wang et al. 2013
		Chinese	Han	Qihe, Shandong, China	25	60%	Wang et al. 2013
		Chinese	Han	Zhanhua, Shandong, China	30	60%	Wang et al. 2013
		Chinese	Han	Baiyin, Gansu, China	101	57%	Wang et al. 2013
		Chinese	Han	Zoucheng, Shandong, China	32	56%	Wang et al. 2013
		Chinese	Han	Heilongjiang, China	41	54%	Wang et al. 2013

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Chinese	Han	Rizhao, Shandong, China	33	52%	Wang et al. 2013
		Chinese	Han	Lanzhou, China	30	50%	Xue et al. 2006
		Chinese	Han	Wuwei, Gansu, China	64	48%	Wang et al. 2013
		Chinese	Han	Shanxi, China	56	48%	Zhong et al. 2011
		Chinese	Hui	Ningxia, China	62	35%	Zhong et al. 2011
		Chinese	Hui	Central China	35	29%	Xue et al. 2006
	Formosan						
		Austronesian	Pazeh	Taiwan, China	40	100%	Trejaut et al. 2014
		Austronesian	Saisat	Taiwan, China	11	100%	Li et al. 2008
		Austronesian	Tsou	Taiwan, China	18	100%	Li et al. 2008
		Austronesian	Atayal	Taiwan, China	22	100%	Li et al. 2008
		Austronesian	Paiwan	Taiwan, China	22	100%	Li et al. 2008
		Austronesian	Amis	Taiwan, China	28	100%	Li et al. 2008
		Austronesian	Siraya (Tainan)	Taiwan, China	30	100%	Trejaut et al. 2014
		Austronesian	Yunlin	Taiwan, China	21	100%	Trejaut et al. 2014
		Austronesian	Tsou	Taiwan, China	41	100%	Trejaut et al. 2014
		Austronesian	Atayal	Taiwan, China	52	100%	Trejaut et al. 2014
		Austronesian	Taroko	Taiwan, China	20	100%	Trejaut et al. 2014
		Austronesian	Thao	Taiwan, China	16	100%	Trejaut et al. 2014
		Austronesian	Paiwan	Taiwan, China	25	100%	Trejaut et al. 2014
		Austronesian	Rukai	Taiwan, China	11	100%	Li et al. 2008
		Austronesian	Puyuma	Taiwan, China	23	100%	Trejaut et al. 2014
		Austronesian	Rukai	Taiwan, China	29	100%	Trejaut et al. 2014

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Austronesian	Bunun	Taiwan, China	56	98%	Trejaut et al. 2014
		Austronesian	Siraya (Hwalien)	Taiwan, China	38	97%	Trejaut et al. 2014
		Austronesian	Siraya (Pingtung)	Taiwan, China	85	96%	Trejaut et al. 2014
		Austronesian	Saisiyat	Taiwan, China	24	96%	Trejaut et al. 2014
		Austronesian	Thao	Taiwan, China	22	95%	Li et al. 2008
		Austronesian	Amis	Taiwan, China	39	95%	Trejaut et al. 2014
		Austronesian	Siraya Makato	Taiwan, China	37	95%	Li et al. 2008
		Austronesian	Bunun	Taiwan, China	17	94%	Li et al. 2008
		Austronesian	Kategalan	Taiwan, China	30	93%	Trejaut et al. 2014
		Austronesian	Pyuma	Taiwan, China	11	91%	Li et al. 2008
		Austronesian	Siraya (Kaohsiung)	Taiwan, China	40	90%	Trejaut et al. 2014
		Austronesian	Papura	Taiwan, China	18	83%	Trejaut et al. 2014
		Austronesian	Siraya (Tainen Coast)	Taiwan, China	38	82%	Trejaut et al. 2014
		Austronesian	Pazeh	Taiwan, China	21	71%	Li et al. 2008
	Hlai						
		Tai-Kadai	Li (Hlai)	Hainan, China	26	100%	Zhong et al. 2011
		Tai-Kadai	Li (Hlai)	Southern China	34	100%	Xue et al. 2006
		Tai-Kadai	Jiamao	Hainan, China	27	100%	Li et al. 2008
		Tai-Kadai	Hlai	Hainan, China	34	97%	Li et al. 2008
		Tai-Kadai	Li (Hlai)	Guizhou, China	14	79%	Zhong et al. 2011
	Hmongic						
		Hmong-Mien	Hmong (Black Hmong)	North Thailand	8	100%	Kutanan et al. 2020

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Hmong-Mien	Miao	Hainan, China	20	100%	Zhong et al. 2011
		Hmong-Mien	Bunu (Southern)	Southern China	20	95%	Cai et al. 2011
		Hmong-Mien	Miao	Guizhou, China	45	93%	Zhong et al. 2011
		Hmong-Mien	Hmong (Black Hmong)	North Thailand	21	90%	Kutanan et al. 2020
		Hmong-Mien	Miao	China	58	86%	Karafet et al. 2010
		Hmong-Mien	Miao (Yunnan)	Southern China	49	86%	Cai et al. 2011
		Hmong-Mien	Miao (Guizhou)	Southern China	49	86%	Cai et al. 2011
		Hmong-Mien	Pa Then	Southern China	31	81%	Cai et al. 2011
		Hmong-Mien	Pathen	Vietnam	36	80%	Macholdt et al. 2020
		Hmong-Mien	Hmong	Hunan Province, Central China	95	75%	Xia et al. 2019
		Hmong-Mien	Miao (Hunan)	Southern China	100	74%	Cai et al. 2011
		Hmong-Mien	Hmong (White Hmong)	North Thailand	23	70%	Kutanan et al. 2020
		Hmong-Mien	Hmong (Daw)	Southern China	51	59%	Cai et al. 2011
		Hmong-Mien	Hmong (Black Hmong)	North Thailand	19	58%	Kutanan et al. 2020
		Hmong-Mien	Hmong	Vietnam	41	37%	Macholdt et al. 2020
		Hmong-Mien	Hmong (White Hmong)	North Thailand	13	31%	Kutanan et al. 2020
		Hmong-Mien	Hmong White	Luang-Prabang, Laos	27	19%	Wang et al. 2013
		Hmong-Mien	Hmong	Xam-Tai, Laos	17	12%	Wang et al. 2013

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Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Hmong-Mien	Shē	Hunan Province, Central China	4	100%	Xia et al. 2019
		Hmong-Mien	She	China	51	100%	Karafet et al. 2010
		Hmong-Mien	She	Southeastern China	34	97%	Xue et al. 2006
		Hmong-Mien	She	Fujian, China	45	93%	Zhong et al. 2011
	Ho The						
		Hmong-Mien	She (Northern)	Southern China	56	88%	Cai et al. 2011
	Japonic						
		Japonic	Japanese	Japan	157	56%	Kim et al. 2011
		Japonic	Japanese	Japan	107	54%	Hong et al. 2006
		Japonic	Japanese	Japan	2390	54%	Sato et al. 2014
		Japonic	Japanese	Japan	263	53%	Naitoh et al. 2013
	Kam-Tai						
		Tai-Kadai	Black Thai	Central Thailand	18	101%	Kutanan et al. 2019
		Tai-Kadai	Phutai	Northeast Thailand	18	101%	Kutanan et al. 2019
		Tai-Kadai	Tai Mène	Khamkheut, Laos	24	100%	Wang et al. 2013
		Tai-Kadai	Zhuang	Guangxi, China	22	100%	Li et al. 2008
		Tai-Kadai	Phu Thai	Boualapha, Laos	24	100%	Wang et al. 2013
		Tai-Kadai	Zhuàng	Hunan Province, Central China	5	100%	Xia et al. 2019
		Tai-Kadai	Lue	North Thailand	13	99%	Kutanan et al. 2019

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Tai-Kadai	Phuan	Central Thailand	18	99%	Kutanan et al. 2019
		Tai-Kadai	Lao	Vientiane, Laos	59	98%	Wang et al. 2013
		Tai-Kadai	Lingao	Hainan, China	30	97%	Li et al. 2008
		Tai-Kadai	Black Thai	Northeast Thailand	18	96%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	18	96%	Kutanan et al. 2019
		Tai-Kadai	Shan	North Thailand	18	96%	Kutanan et al. 2019
		Tai-Kadai	Lue	North Thailand	17	96%	Kutanan et al. 2019
		Tai-Kadai	Khon Mueang	North Thailand	17	95%	Kutanan et al. 2019
		Tai-Kadai	Bouyei (Buyi)	Guizhou, China	54	94%	Zhong et al. 2011
		Tai-Kadai	Dong	Guangxi, China	17	94%	Zhong et al. 2011
		Tai-Kadai	Lao Isan	Northeast Thailand	16	94%	Kutanan et al. 2020
		Tai-Kadai	Lue	Northern Thailand	91	93%	Brunelli et al. 2017
		Tai-Kadai	Then	Guizhou, China	30	93%	Li et al. 2008
		Tai-Kadai	Maonan	Guizhou, China	15	93%	Zhong et al. 2011
		Tai-Kadai	Yong	Northern Thailand	26	92%	Brunelli et al. 2017
		Tai-Kadai	Khon Mueang	North Thailand	13	92%	Kutanan et al. 2019
		Tai-Kadai	Phutai	Northeast Thailand	24	92%	Kutanan et al. 2020
		Tai-Kadai	Biao	Guangdong, China	34	91%	Li et al. 2008
		Tai-Kadai	Laolsan	Northeast Thailand	18	91%	Kutanan et al. 2019

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Tai-Kadai	Laolsan	Northeast Thailand	18	91%	Kutanan et al. 2019
		Tai-Kadai	Cao Miao	Guangxi, China	33	91%	Li et al. 2008
		Tai-Kadai	Khon Muang	Northern Thailand	191	91%	Brunelli et al. 2017
		Tai-Kadai	Dai	Yunnan Province, SW China	251	90%	Xu et al. 2019
		Tai-Kadai	Zhuang	Guangxi, China	61	90%	Zhong et al. 2011
		Tai-Kadai	Shan	Northern Thailand	20	90%	Brunelli et al. 2017
		Tai-Kadai	Shan	North Thailand	20	90%	Kutanan et al. 2020
		Tai-Kadai	Khon Mueang	North Thailand	17	90%	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	17	89%	Kutanan et al. 2019
		Tai-Kadai	Phuan	North Thailand	17	89%	Kutanan et al. 2019
		Tai-Kadai	Kalueng	Northeast Thailand	17	89%	Kutanan et al. 2019
		Tai-Kadai	Bouyei (Buyi)	Southern China	35	89%	Xue et al. 2006
		Tai-Kadai	Laolsan	Northeast Thailand	9	88%	Kutanan et al. 2019
		Tai-Kadai	Tay	Vietnam	47	88%	Macholdt et al. 2020
		Tai-Kadai	Tai Dam	Xam-Tai, Laos	50	88%	Wang et al. 2013
		Tai-Kadai	Colao	Vietnam	34	88%	Macholdt et al. 2020
		Tai-Kadai	Rien	Xaignabouri, Laos	49	88%	Wang et al. 2013
		Tai-Kadai	Zhuang	Guangxi, China	39	87%	
		Tai-Kadai	Thai	Thailand	50	86%	Hong et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
	Tai-Kadai	Thai	Thailand		40	85%	Kim et al. 2011
	Tai-Kadai	Laotian	Laos		20	85%	Kutanan et al. 2019
	Tai-Kadai	Laotian	Laos		20	85%	Kutanan et al. 2019
	Tai-Kadai	Dai	Yunnan, China		18	83%	Zhong et al. 2011
	Tai-Kadai	Sui (Shui)	Guangxi, China		50	82%	Li et al. 2008
	Tai-Kadai	Mulam	Guangxi, China		11	82%	Gan et al. 2008
	Tai-Kadai	Central Thai	Western Thailand		18	81%	Kutanan et al. 2019
	Tai-Kadai	Yuan	Central Thailand		12	81%	Kutanan et al. 2019
	Tai-Kadai	Man-Caolan	Guangxi, China		30	80%	Li et al. 2008
	Tai-Kadai	Lao	Laos		25	80%	He et al. 2012
	Tai-Kadai	Tai Deang	Huaphuan, Laos		48	79%	Wang et al. 2013
	Tai-Kadai	Nung	Vietnam		37	79%	Macholdt et al. 2020
	Tai-Kadai	Yuan	North Thailand		14	78%	Kutanan et al. 2019
	Tai-Kadai	Khon Mueang	North Thailand		13	78%	Kutanan et al. 2019
	Tai-Kadai	Thai	Vietnam		24	78%	Macholdt et al. 2020
	Tai-Kadai	Yuan	Northern Thailand		85	78%	Brunelli et al. 2017
	Tai-Kadai	Mulam	Guangxi, China		51	76%	Deng et al. 2013
	Tai-Kadai	Zhuang	Guangxi, China		21	76%	Gan et al. 2008
	Tai-Kadai	Central Thai	Central Thailand		19	76%	Kutanan et al. 2019
	Tai-Kadai	Central Thai	Central Thailand		18	75%	Kutanan et al. 2019
	Tai-Kadai	Kuen	Northern Thailand		24	75%	Brunelli et al. 2017

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Tai-Kadai	Dong	Guangxi, China	38	74%	Li et al. 2008
		Tai-Kadai	Kam	Hunan Province, Central China	71	73%	Xia et al. 2019
		Tai-Kadai	Mulam	Guangxi, China	40	73%	Li et al. 2008
		Tai-Kadai	Sui (Shui)	Guizhou, China	29	72%	Zhong et al. 2011
		Tai-Kadai	Seak	Northeast Thailand	7	71%	Kutanan et al. 2019
		Tai-Kadai	Kam	Guangxi, China	27	70%	Wang et al. 2013
		Tai-Kadai	Zhuang	Guangxi, China	63	70%	Zhao et al. 2010
		Tai-Kadai	Nyaw	Northeast Thailand	18	69%	Kutanan et al. 2019
		Tai-Kadai	Dong	Hunan, China	45	67%	Zhong et al. 2011
		Tai-Kadai	Khuen	North Thailand	17	66%	Kutanan et al. 2019
		Tai-Kadai	Maonan	Guangxi, China	32	66%	Li et al. 2008
		Tai-Kadai	Central Thai	Central Thailand	19	62%	Kutanan et al. 2019
		Tai-Kadai	Chadong	Guangxi, China	21	62%	Deng et al. 2013
		Tai-Kadai	Saek	Boualapha, Laos	35	60%	Wang et al. 2013
		Tai-Kadai	Phuan	Xiang-Khuoang, Laos	22	59%	Wang et al. 2013
		Tai-Kadai	Thai	Northern Thailand	17	59%	He et al. 2012
		Tai-Kadai	Central Thai	North Thailand	18	58%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	19	57%	Kutanan et al. 2019
		Tai-Kadai	Zhuang-GB	Guangxi, China	21	52%	Wang et al. 2013

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Tai-Kadai	Laka	Guangxi, China	23	39%	Gan et al. 2008
		Tai-Kadai	Kang	Xam-Tai and Xam Nua, Laos	12	33%	Wang et al. 2013
Karenic							
		Tibeto-Burman	Karen (Skaw Karen)	North Thailand	15	87%	Kutanan et al. 2020
		Tibeto-Burman	Karen (Skaw)	North Thailand	12	74%	Kutanan et al. 2019
		Tibeto-Burman	Karen (Pwo)	North Thailand	11	72%	Kutanan et al. 2019
		Tibeto-Burman	Karen (Paduang)	North Thailand	11	72%	Kutanan et al. 2019
		Tibeto-Burman	Karen (Skaw)	North Thailand	8	64%	Kutanan et al. 2019
Koreanic							
		Koreanic	Koreans	Korea	706	79%	Kwon et al. 2015
		Koreanic	Koreans	Korea	706	77%	Park et al. 2012
		Koreanic	Koreans	Korea	506	76%	Kim et al. 2011
		Koreanic	Koreans	Korea	154	75%	Hong et al. 2006
		Koreanic	Koreans	Jilin, Dunhua, China	203	52%	Wang et al. 2013
Kra							
		Tai-Kadai	Yerong	Guangxi, China	16	100%	Li et al. 2008
		Tai-Kadai	White Gelao	Yunnan, China	14	100%	Li et al. 2008
		Tai-Kadai	Laqua	Yunnan, China	25	100%	Li et al. 2008
		Tai-Kadai	Red Gelao	Guizhou, China	31	90%	Li et al. 2008
		Tai-Kadai	Cun	Hainan, China	31	90%	Li et al. 2008
		Tai-Kadai	Mollao	Guizhou, China	30	87%	Li et al. 2008
		Tai-Kadai	Blue Gelao	Guangxi, China	30	83%	Li et al. 2008

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		Tai-Kadai	Gelao	Guizhou, China	21	81%	Zhong et al. 2011
		Tai-Kadai	Qau	Guizhou, China	13	77%	Li et al. 2008
		Tai-Kadai	Gelong	Hainan, China	79	76%	Li et al. 2010
		Tai-Kadai	Lachi	Yunnan, China	30	67%	Li et al. 2008
		Tai-Kadai	Buyang	Yunnan, China	32	53%	Li et al. 2008
	Malayo-Polynesian						
		Austronesian	Cham	Vietnam	11	100%	Li et al. 2008
		Austronesian	Yami	Taiwan, China	30	100%	Trejaut et al. 2014
		Austronesian	Mang	Vietnam	37	97%	Macholdt et al. 2020
		Austronesian	Tsat	Hainan, China	31	87%	Li et al. 2008
		Austronesian	Indonesians	Indonesia	36	86%	Hong et al. 2006
		Austronesian	Giarai	Vietnam	27	86%	Macholdt et al. 2020
		Austronesian	Ede	Vietnam	24	82%	Macholdt et al. 2020
		Austronesian	Utsat	Hainan Island, China	72	78%	Li et al. 2013
		Austronesian	Malaysians	Malaysia	32	75%	Karafet et al. 2010
		Austronesian	Cham	Vietnam	59	59%	He et al. 2012
	Mienic						
		Hmong-Mien	Mien (Northern)	Southern China	33	97%	Cai et al. 2011
		Hmong-Mien	Kimmun (Mountain)	Southern China	32	97%	Cai et al. 2011
		Hmong-Mien	Kimmun (Blue)	Southern China	28	96%	Cai et al. 2011
		Hmong-Mien	Yao	Guangdong, China	27	96%	Zhong et al. 2011
		Hmong-Mien	Yao (Liannan)	Southern China	35	94%	Xue et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Hmong-Mien	Zaomin	Southern China	37	92%	Cai et al. 2011
		Hmong-Mien	Mien (Southern)	Southern China	31	90%	Cai et al. 2011
		Hmong-Mien	Dao	Vietnam	43	90%	Macholdt et al. 2020
		Hmong-Mien	Mien (Straggler)	Southern China	20	90%	Cai et al. 2011
		Hmong-Mien	IuMien	North Thailand	10	90%	Kutanan et al. 2020
		Hmong-Mien	IuMien	North Thailand	17	88%	Kutanan et al. 2020
		Hmong-Mien	Mien (Native)	Southern China	41	88%	Cai et al. 2011
		Hmong-Mien	Mien (Western)	Southern China	47	87%	Cai et al. 2011
		Hmong-Mien	Pahng	Hunan Province, Central China	21	86%	Xia et al. 2019
		Hmong-Mien	Kimmun (Lowland)	Southern China	41	83%	Cai et al. 2011
		Hmong-Mien	Mien	Hunan Province, Central China	33	82%	Xia et al. 2019
		Hmong-Mien	Yao	Guangxi, China	55	80%	Zhong et al. 2011
		Hmong-Mien	Yao	China	60	78%	Karafet et al. 2010
		Hmong-Mien	Yao (Bama)	Southern China	35	77%	Xue et al. 2006
		Hmong-Mien	Yao (Lowland)	Southern China	31	74%	Cai et al. 2011
		Hmong-Mien	Mien	Guangxi, China	11	36%	Wang et al. 2013
	Mongolic	Mongolic	Mongols	Inner Mongolia, Chifeng, China	76	55%	Wang et al. 2013
		Mongolic	Daur	Northeastern China	39	54%	Xue et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Mongolic	Khalkh	Mongolia	45	42%	Kim et al. 2011
		Mongolic	Bonan	Northwest China	27	41%	Shou et al. 2010
		Mongolic	Monguor (Tu)	Northwest China	50	40%	Shou et al. 2010
		Mongolic	Mongols	Northwest China	50	38%	Shou et al. 2010
		Mongolic	Buryats	Mongolia	36	36%	Kim et al. 2011
		Mongolic	Khalkh	Mongolia	48	25%	Hong et al. 2006
		Mongolic	Buryat	Mongolia	50	20%	Hong et al. 2006
		Mongolic	Yugur	Northwest China	32	19%	Shou et al. 2010
		Mongolic	Monguor (Tu)	Qinghai, Huzhu, China	126	18%	Wang et al. 2013
		Mongolic	Mongols	Inner Mongolia	22	18%	Zhong et al. 2011
		Mongolic	Mongols	Mongolia	160	15%	Di Cristofaro et al. 2013
		Mongolic	Dongxiang	Northwest China	35	11%	Shou et al. 2010
	Mon-Khmer						
		Austro-Asiatic	Khmu	Northeast Thailand	18	101%	Kutanan et al. 2019
		Austro-Asiatic	Htin (Pray)	North Thailand	12	100%	Kutanan et al. 2019
		Austro-Asiatic	Oy	Laos	50	100%	Cai et al. 2011
		Austro-Asiatic	Htin (Mal)	North Thailand	18	100%	Kutanan et al. 2019
		Austro-Asiatic	Katu	Laos	45	100%	Cai et al. 2011
		Austro-Asiatic	Suy	Laos	39	100%	Cai et al. 2011
		Austro-Asiatic	Jeh	Laos	32	100%	Cai et al. 2011
		Austro-Asiatic	Inh	Laos	34	100%	Cai et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Austro-Asiatic	Palyu	Southern China	30	100%	Cai et al. 2011
		Austro-Asiatic	Paluang	North Thailand	18	100%	Kutanan et al. 2019
		Austro-Asiatic	Mal	Laos	50	100%	Cai et al. 2011
		Austro-Asiatic	Suy	Salavan, Laos	39	100%	Wang et al. 2013
		Austro-Asiatic	Mlabri	North Thailand	10	100%	Kutanan et al. 2019
		Austro-Asiatic	Inh	Salavan, Laos	34	100%	Wang et al. 2013
		Austro-Asiatic	Lawa (Western)	North Thailand	17	100%	Kutanan et al. 2019
		Austro-Asiatic	Khmer	Northeast Thailand	19	100%	Kutanan et al. 2019
		Austro-Asiatic	Kataang	Laos	38	97%	Cai et al. 2011
		Austro-Asiatic	Aheu	Laos	38	97%	Cai et al. 2011
		Austro-Asiatic	Talieng	Vietnam	35	97%	Cai et al. 2011
		Austro-Asiatic	Ngeq	Laos	35	97%	Cai et al. 2011
		Austro-Asiatic	Bugan	Southern China	32	97%	Cai et al. 2011
		Austro-Asiatic	Brau	Laos	32	97%	Cai et al. 2011
		Austro-Asiatic	Alak	Laos	31	97%	Cai et al. 2011
		Austro-Asiatic	Bo	Khamkheut, Laos	29	97%	Wang et al. 2013
		Austro-Asiatic	Xinmul	Laos	29	97%	Cai et al. 2011
		Austro-Asiatic	Bo	Laos	28	96%	Cai et al. 2011
		Austro-Asiatic	Bit	Southern China	28	96%	Cai et al. 2011
		Austro-Asiatic	Blang	North Thailand	18	96%	Kutanan et al. 2019
		Austro-Asiatic	Kataang	Salavan, Laos	38	95%	Wang et al. 2013
		Austro-Asiatic	Lamet	Laos	35	94%	Cai et al. 2011
		Austro-Asiatic	Bolyu	Guangxi, China	30	93%	Li et al. 2008
		Austro-Asiatic	Gin (Jing)	Guangxi, China	45	91%	Zhong et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Austro-Asiatic	Khmu	Laos	51	90%	Cai et al. 2011
		Austro-Asiatic	Bru	Northeast Thailand	18	90%	Kutanan et al. 2019
		Austro-Asiatic	Suay	Northeast Thailand	20	90%	Kutanan et al. 2019
		Austro-Asiatic	Ksingmul	Xam-Tai, Laos	29	90%	Wang et al. 2013
		Austro-Asiatic	Soa	Northeast Thailand	17	89%	Kutanan et al. 2019
		Austro-Asiatic	Sô	Boualapha, Laos	50	88%	Wang et al. 2013
		Austro-Asiatic	Sô	Laos	50	88%	Cai et al. 2011
		Austro-Asiatic	Htin (Pray)	North Thailand	17	88%	Kutanan et al. 2019
		Austro-Asiatic	Lawa (Western)	North Thailand	15	87%	Kutanan et al. 2019
		Austro-Asiatic	Ava	Southern China	29	86%	Cai et al. 2011
		Austro-Asiatic	Mon	Northeast Thailand	19	84%	Kutanan et al. 2019
		Austro-Asiatic	Vietnamese	Vietnam	76	83%	He et al. 2012
		Austro-Asiatic	Palaung (De'ang)	Yunnan, China	28	82%	Zhong et al. 2011
		Austro-Asiatic	Aheu	Khamkheut, Laos	37	81%	Wang et al. 2013
		Austro-Asiatic	Laven	Laos	50	80%	Cai et al. 2011
		Austro-Asiatic	Kinh	Vietnam	50	80%	Macholdt et al. 2020
		Austro-Asiatic	Khmer	Northeast Thailand	10	80%	Kutanan et al. 2019
		Austro-Asiatic	Blang	Laos	52	79%	Cai et al. 2011
		Austro-Asiatic	Vietnamese	Vietnam	70	79%	Karafet et al. 2010

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Austro-Asiatic	Mal	Xaignabouri, Laos	50	78%	Wang et al. 2013
		Austro-Asiatic	Mon	Northern Thailand	18	78%	Brunelli et al. 2017
		Austro-Asiatic	Alak	Thateng and Lamam, Laos	31	77%	Wang et al. 2013
		Austro-Asiatic	Vietnamese	Vietnam	48	77%	Kim et al. 2011
		Austro-Asiatic	Katu	Thateng, Laos	46	76%	Wang et al. 2013
		Austro-Asiatic	Vietnamese	Vietnam	41	76%	Hong et al. 2006
		Austro-Asiatic	Mon	Western Thailand	15	75%	Kutanan et al. 2019
		Austro-Asiatic	Lamet	Nale, Laos	42	71%	Wang et al. 2013
		Austro-Asiatic	Mon	Central Thailand	14	70%	Kutanan et al. 2019
		Austro-Asiatic	Khmu	Luang-Prabang, Laos	52	69%	Wang et al. 2013
		Austro-Asiatic	Bru (Brao)	Samakhixai, Laos	32	69%	Wang et al. 2013
		Austro-Asiatic	Nyahkur	Northeast Thailand	21	68%	Kutanan et al. 2019
		Austro-Asiatic	Lawa	Northern Thailand	50	68%	Brunelli et al. 2017
		Austro-Asiatic	Laven	Thateng, Laos	50	66%	Wang et al. 2013
		Austro-Asiatic	Mon	North Thailand	12	65%	Kutanan et al. 2019
		Austro-Asiatic	Oy	Samakhixai, Laos	50	64%	Wang et al. 2013
		Austro-Asiatic	Mon	Central Thailand	13	63%	Kutanan et al. 2019
		Austro-Asiatic	Wa	Yunnan, China	16	63%	Zhong et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Austro-Asiatic	Bit	Louang-Namtha, Laos	28	54%	Wang et al. 2013
		Austro-Asiatic	Jeh	Dakchung and Thateng, Laos	32	53%	Wang et al. 2013
		Austro-Asiatic	Mon	Central Thailand	14	49%	Kutanan et al. 2019
		Austro-Asiatic	Ngeq	Salavan, Laos	35	49%	Wang et al. 2013
		Austro-Asiatic	Lawa (Eastern)	North Thailand	16	43%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Western Thailand	18	35%	Kutanan et al. 2019
	Ngwi-Burmese						
		Tibeto-Burman	Phunoi	Louang-Namtha, Laos	27	93%	Wang et al. 2013
		Tibeto-Burman	Sila	Vietnam	29	86%	Macholdt et al. 2020
		Tibeto-Burman	Lolo	Vietnam	36	78%	Macholdt et al. 2020
		Tibeto-Burman	Yi (Yizu)	Yunnan, China	27	74%	Zhong et al. 2011
		Tibeto-Burman	Lisu	North Thailand	15	73%	Kutanan et al. 2020
		Tibeto-Burman	Yi (Yizu)	Yunnan Province, SW China	283	69%	Guo et al. 2019
		Tibeto-Burman	Yi (Yizu)	Sichuan, China	24	67%	Zhong et al. 2011
		Tibeto-Burman	Hani	Southern China	34	65%	Xue et al. 2006
		Tibeto-Burman	Hanhi	Vietnam	33	63%	Macholdt et al. 2020
		Tibeto-Burman	Bamar	Myanmar	59	63%	Peng et al. 2014
		Tibeto-Burman	Hani	Yunnan, China	60	55%	Zhong et al. 2011
		Tibeto-Burman	Lahu	Vietnam	31	45%	Macholdt et al. 2020
		Tibeto-Burman	Mussur/Lahu (Black Lahu)	North Thailand	17	41%	Kutanan et al. 2020

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Tibeto-Burman	Mussur/Lahu (Red Lahu)	North Thailand	16	38%	Kutanan et al. 2020
		Tibeto-Burman	Akha	Thailand	27	37%	Trejaut et al. 2014
		Tibeto-Burman	Phula	Vietnam	35	26%	Macholdt et al. 2020
	Northeastern Tibeto-Burman						
		Tibeto-Burman	Qiang	Central China	33	94%	Xue et al. 2006
		Tibeto-Burman	Bai	Yunnan, China	34	82%	Zhong et al. 2011
		Tibeto-Burman	Northern Tǔjiā	Hunan Province, Central China	24	71%	Xia et al. 2019
		Tibeto-Burman	Tujia	Guizhou, China	33	67%	Zhong et al. 2011
		Tibeto-Burman	Tujia	China	49	65%	Karafet et al. 2010
		Tibeto-Burman	Bai	Yunnan Province, SW China	278	64%	Guo et al. 2019
		Tibeto-Burman	Mandarin Tǔjiā	Hunan Province, Central China	53	58%	Xia et al. 2019
		Tibeto-Burman	Southern Tǔjiā	Hunan Province, Central China	12	58%	Xia et al. 2019
		Tibeto-Burman	Tujia	Hubei, China	26	58%	Zhong et al. 2011
		Tibeto-Burman	Horpa (Daofu)	Sichuan, China	16	50%	Wang et al. 2014
		Tibeto-Burman	Horpa (Danba)	Sichuan, China	18	44%	Wang et al. 2014
		Tibeto-Burman	Queyu	Sichuan, Yajiang, China	148	36%	Wang et al. 2013
		Tibeto-Burman	Baima	Wenxian, Gansu, China	136	31%	Wang et al. 2013

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Tibeto-Burman	Jiarong	Sichuan, Danba, China	104	31%	Wang et al. 2013
		Tibeto-Burman	Qiang	Sichuan, China	27	30%	Zhong et al. 2011
		Tibeto-Burman	Qiang	Sichuan, Aba, China	170	24%	Wang et al. 2013
		Tibeto-Burman	Muya	Sichuan, Kangding, China	158	15%	Wang et al. 2013
	Sal	Tibeto-Burman	Jingpo	Yunnan, China	30	90%	Zhong et al. 2011
		Tibeto-Burman	Jingpo	Yunnan Province, SW China	249	81%	Xu et al. 2019
	Tai-Kadai						
		Tai-Kadai	Lachi	Vietnam	36	99%	Macholdt et al. 2020
	Tungusic						
		Tungusic	Evenks	Inner Mongolia	31	74%	Zhong et al. 2011
		Tungusic	Manchu	Manchuria	48	73%	Hong et al. 2006
		Tungusic	Manchus	Manchuria, China	30	70%	Kim et al. 2011
		Tungusic	Manchu	Liaoning, China	66	68%	Zhong et al. 2011
		Tungusic	Xibe	Northwest China	32	56%	Shou et al. 2010
		Tungusic	Nanai (Hezhe)	Northeastern China	45	51%	Xue et al. 2006
		Tungusic	Manchu	Inner Mongolia, Chifeng, China	48	46%	Wang et al. 2013
		Tungusic	Manchu	Northeastern China	35	46%	Xue et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Tungusic	Xibe	Xingjiang, China	61	39%	Zhong et al. 2011
		Tungusic	Manchu	Heilongjiang, China	24	38%	Zhong et al. 2011
		Tungusic	Xibe	Northwestern China	41	37%	Xue et al. 2006
		Tungusic	Evenks	Northern China	26	35%	Xue et al. 2006
		Tungusic	Manchu	Jilin, China	173	31%	Wang et al. 2013
		Tungusic	Oroquen	Northern China	31	29%	Xue et al. 2006
	Turkic						
		Turkic	Salar	Northwest China	35	34%	Shou et al. 2010
		Turkic	Uyghurs	Northwestern China	39	18%	Xue et al. 2006
		Turkic	Uyghur	Hunan Province, Central China	15	13%	Xia et al. 2019
		Turkic	Uyghurs	Xingjiang, China	71	13%	Zhong et al. 2011
		Turkic	Uyghurs	Northwest China	50	10%	Shou et al. 2010
	Western Tibeto-Burman						
		Tibeto-Burman	Khams (Yajiang)	Sichuan, China	47	62%	Wang et al. 2014
		Tibeto-Burman	Khams (Xinlong)	Sichuan, China	46	57%	Wang et al. 2014
		Tibeto-Burman	Khams	Tibet, Lhasa, China	39	36%	Wang et al. 2013
		Tibeto-Burman	Luoba	Tibet	130	35%	Kang et al. 2012
		Tibeto-Burman	Tibetans	Tibet	2354	33%	Qi et al. 2013
		Tibeto-Burman	Tibetans	Xizang, China	191	29%	Zhong et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Tibeto-Burman	Khams	Tibet, Qamdo, China	279	28%	Wang et al. 2013
		Tibeto-Burman	Khams	Tibet, Nyingchi, China	140	26%	Wang et al. 2013
Eastern Europe							
	Mongolic						
		Mongolic	Kalmyks	Kalmyk Republic, Russia	426	12%	Malyarchuk et al. 2013
Indian Ocean							
	Malayo-Polynesian						
		Austronesian	Antemoro (Antalaotra)	Madagascar	43	44%	Capredon et al. 2013
		Austronesian	Highland Malagasy	Madagascar	133	39%	Tofanelli et al. 2009
		Austronesian	Malagasy Cotiers	Madagascar	59	20%	Tofanelli et al. 2009
		Austronesian	Antemoro (Ampanabaka)	Madagascar	46	15%	Capredon et al. 2013
	Mon-Khmer						
		Austro-Asiatic	Shompen	Nicobar Islands	12	100%	Trivedi et al. 2006
Island Southeast Asia							
	Malayo-Polynesian						
		Austronesian	Nias	Indonesia	12	100%	Li et al. 2008
		Austronesian	Nias	Nias, Indonesia	60	100%	Karafet et al. 2010
		Austronesian	Palembang	Indonesia	11	91%	Li et al. 2008
		Austronesian	Mentawai Islanders	Mentawai, Indonesia	74	86%	Karafet et al. 2010

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Austronesian	Balinese	Bali	641	86%	Karafet et al. 2010
		Austronesian	Filipinos	Philippines	69	86%	Hong et al. 2006
		Austronesian	Bangka	Indonesia	13	85%	Li et al. 2008
		Austronesian	Sumatrans	Sumatra, Indonesia	38	84%	Karafet et al. 2010
		Austronesian	Sumbawa	Indonesia	18	83%	Li et al. 2008
		Austronesian	Filipinos	Philippines	210	81%	Delfin et al. 2011
		Austronesian	Banjar	Indonesia	15	80%	Li et al. 2008
		Austronesian	Filipinos	Philippines	146	79%	Trejaut et al. 2014
		Austronesian	Javanese	Java, Indonesia	61	77%	Karafet et al. 2010
		Austronesian	Makassar	Indonesia	13	77%	Li et al. 2008
		Austronesian	Torajan	Indonesia	15	73%	Li et al. 2008
		Austronesian	Sasak	Indonesia	15	73%	Li et al. 2008
		Austronesian	Bugis	Indonesia	15	67%	Li et al. 2008
		Austronesian	Bornean	Borneo, Indonesia	86	66%	Karafet et al. 2010
		Austronesian	Kaili	Indonesia	15	53%	Li et al. 2008
		Austronesian	Minangkabau	Indonesia	15	53%	Li et al. 2008
		Austronesian	Filipinos	Philippines	48	50%	Karafet et al. 2010
		Austronesian	Sulawesi	Sulawesi, Indonesia	54	50%	Karafet et al. 2010
		Austronesian	Kurti	Admiralty Islands	18	50%	Kayser et al. 2008
		Austronesian	Minahasa	Indonesia	14	43%	Li et al. 2008
		Austronesian	Ma'anyan	Borneo	159	43%	Kusuma et al. 2015
		Austronesian	Tengger	Indonesia	12	42%	Li et al. 2008

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Austronesian	Dayak	Indonesia	15	40%	Li et al. 2008
		Austronesian	Woodlark Islanders	Papua New Guinea	13	38%	Oven et al. 2014
		Austronesian	Seimat-Wuvulu	Admiralty Islands	11	36%	Kayser et al. 2008
		Austronesian	Buka	Bougainville	10	30%	Scheinfeldt et al. 2006
		Austronesian	Trobriand Islanders	Papua New Guinea	60	28%	Oven et al. 2014
		Austronesian	Teop	Bougainville	18	28%	Scheinfeldt et al. 2006
		Austronesian	Kateri	West Timor	50	24%	Tumonggor et al. 2014
		Austronesian	Nyindrou	Admiralty Islands	17	24%	Kayser et al. 2008
		Austronesian	Kakaniuk	West Timor	47	23%	Tumonggor et al. 2014
		Austronesian	Solor	Eastern Indonesia	43	23%	Mona et al. 2009, Mona et al. 2011
		Austronesian	Alor	Indonesia	13	23%	Li et al. 2008
		Austronesian	Melamela	PNG, West New Britain	14	21%	Scheinfeldt et al. 2006
		Austronesian	Kove	PNG, West New Britain	24	21%	Scheinfeldt et al. 2006
		Austronesian	Fatuketi	West Timor	35	20%	Tumonggor et al. 2014
		Austronesian	Besikama	West Timor	42	19%	Tumonggor et al. 2014
		Austronesian	Titan	Admiralty Islands	21	19%	Kayser et al. 2008
		Austronesian	Flores Islanders	Flores, Indonesia	394	19%	Karafet et al. 2010
		Austronesian	Laran	West Timor	50	18%	Tumonggor et al. 2014
		Austronesian	Nalik	PNG, New Ireland	17	18%	Scheinfeldt et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Austronesian	Nakani	PNG, West New Britain	36	17%	Scheinfeldt et al. 2006
		Austronesian	Kamanasa	West Timor	62	16%	Tumonggor et al. 2014
		Austronesian	Nali	Admiralty Islands	19	16%	Kayser et al. 2008
		Austronesian	Sumbanese	Sumba, Indonesia	350	16%	Karafet et al. 2010
		Austronesian	East Timor	Eastern Indonesia	33	15%	Mona et al. 2009, Mona et al. 2011
		Austronesian	Tigak	PNG, New Ireland	21	14%	Scheinfeldt et al. 2006
		Austronesian	Flores	Eastern Indonesia	71	14%	Mona et al. 2009, Mona et al. 2011
		Austronesian	Kletek Suai	West Timor	15	13%	Tumonggor et al. 2014
		Austronesian	Umaklaran	West Timor	41	12%	Tumonggor et al. 2014
		Austronesian	Saposa	Bougainville	26	12%	Scheinfeldt et al. 2006
		Austronesian	Lawalu	West Timor	49	10%	Tumonggor et al. 2014
		Austronesian	Tolai	PNG, East New Britain	49	10%	Scheinfeldt et al. 2006
		Austronesian	Raimanawe	West Timor	50	10%	Tumonggor et al. 2014
		Austronesian	Andra-Hus	Admiralty Islands	20	10%	Kayser et al. 2008
	Trans-New Guinea						
		Trans-New Guinea	Pantar	Eastern Indonesia	28	43%	Mona et al. 2009, Mona et al. 2011
		Trans-New Guinea	Tialai	West Timor	24	13%	Tumonggor et al. 2014
	Yele-West New Britain						

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Yele-West New Britain	Rossel Islanders	Papua New Guinea	80	30%	Oven et al. 2014
Northern Eurasia							
	Tungusic						
		Tungusic	Udege	Southeastern Siberia	21	19%	Jin et al. 2010
	Turkic						
		Turkic	Altaiian Kazakhs	Altai Republic, Russia	119	26%	Dulik et al. 2011
Oceania							
	Central Solomons						
		Central Solomons	Vella Lavella	Solomon Islands	44	14%	Delfin et al. 2012
	Creole						
		Creole	Ni-Vanuatu	Vanuatu	44	18%	Karafet et al. 2010
	Malayo-Polynesian						
		Austronesian	Niueans	Polynesia	10	90%	Kayser et al. 2006
		Austronesian	Bellona	Solomon Islands	28	89%	Delfin et al. 2012
		Austronesian	Rennel	Solomon Islands	38	71%	Delfin et al. 2012
		Austronesian	Kolombangara	Solomon Islands	17	65%	Delfin et al. 2012
		Austronesian	Tongans	Polynesia	52	54%	Mirabal et al. 2012
		Austronesian	Tongans	Tonga	12	50%	Karafet et al. 2010
		Austronesian	Tuvalu	Polynesia	100	45%	Kayser et al. 2006
		Austronesian	East Futuna	Polynesia	50	42%	Kayser et al. 2006
		Austronesian	Tongans	Polynesia	29	41%	Kayser et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Austronesian	Isabel	Solomon Islands	53	38%	Delfin et al. 2012
		Austronesian	Tutila	Samoa Archipelago	24	38%	Mirabal et al. 2012
		Austronesian	Gela	Solomon Islands	47	32%	Delfin et al. 2012
		Austronesian	Tahitians	Tahiti	24	29%	Karafet et al. 2010
		Austronesian	West Samoa	Samoa Archipelago	61	26%	Mirabal et al. 2012
		Austronesian	Samoans	Polynesia	62	26%	Kayser et al. 2006
		Austronesian	Samoans	Samoa	12	25%	Karafet et al. 2010
		Austronesian	Leeward Society Islanders	Leeward Society Islands	72	24%	Hudjashov et al. 2018
		Austronesian	Maori	New Zealand	48	21%	Hudjashov et al. 2018
		Austronesian	Samoans	American Samoa	6	17%	Karafet et al. 2010
		Austronesian	Makira	Solomon Islands	39	15%	Delfin et al. 2012
		Austronesian	Guadalcanal	Solomon Islands	53	15%	Delfin et al. 2012
		Austronesian	Simbo	Solomon Islands	20	15%	Delfin et al. 2012
		Austronesian	Manua	Samoa Archipelago	21	14%	Mirabal et al. 2012
		Austronesian	Fijians	Polynesia	107	13%	Kayser et al. 2006
		Austronesian	Rononga	Solomon Islands	44	11%	Delfin et al. 2012

South Asia

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
Angami-Pochuri							
		Tibeto-Burman	Poumai Naga	Manipur	50	100%	Tamang et al. 2018
		Tibeto-Burman	Chakhesang	Nagaland	55	95%	Tamang et al. 2018
		Tibeto-Burman	Sema Naga	Nagaland	54	17%	Tamang et al. 2018
Central Tibeto-Burman							
		Tibeto-Burman	Nyishi	Arunachal Pradesh	48	75%	Tamang et al. 2018
Central-Naga							
		Tibeto-Burman	Ao Naga	Nagaland	67	63%	Tamang et al. 2018
Dravidian							
		Dravidian	Porja	Andhra Pradesh, SE India	111	84%	Isukapatla et al. 2019
		Dravidian	Konda Reddy	South India	30	67%	Sengupta et al. 2006
		Dravidian	Nagesia	Chattishgarh, India	14	57%	Kumar et al. 2007
		Dravidian	Koya Dora	South India	27	48%	Sengupta et al. 2006
		Dravidian	Kamar	Central India	30	43%	Sengupta et al. 2006
		Dravidian	Oraon	India: Jharkhand and Chattisgarh	91	32%	Kumar et al. 2007
		Dravidian	Oraon	Northeastern India	110	12%	Borkar et al. 2011
		Dravidian	Muria	Central India	20	10%	Sengupta et al. 2006
Indo-Aryan							
		Indo-European	Bhuiyan	Orissa, India	81	84%	Kumar et al. 2007

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Indo-European	Pando	Chattishgarh, India	23	65%	Kumar et al. 2007
		Indo-European	Tharu	Chitwan, Nepal	57	54%	Fornarino et al. 2009
		Indo-European	Rajbanshi	Eastern India	51	47%	Debnath et al. 2011
		Indo-European	Tharu	Butwal, Nepal	10	40%	Chaubey et al. 2014
		Indo-European	Kanwar	Chattishgarh, India	41	39%	Kumar et al. 2007
		Indo-European	Bathudi	Orissa, India	36	36%	Kumar et al. 2007
		Indo-European	Tharu	Haldwani, India	22	32%	Chaubey et al. 2014
		Indo-European	Tharu	Morang, Nepal	37	30%	Fornarino et al. 2009
		Indo-European	Halba	Central India	21	29%	Sengupta et al. 2006
		Indo-European	Tharu	Tulsipur, Nepal	21	29%	Chaubey et al. 2014
		Indo-European	Tharu	Chitwan, Nepal	77	29%	Fornarino et al. 2009
		Indo-European	Chakma	Bangladesh	89	26%	Gazi et al. 2013
		Indo-European	Tharu	Nainital, India	23	22%	Chaubey et al. 2014
		Indo-European	Tharu	Mahrajganj, India	42	19%	Chaubey et al. 2014
		Indo-European	Rajbanshi	Northeastern India	45	18%	Borkar et al. 2011
		Indo-European	Tharu	Deoria, India	47	17%	Chaubey et al. 2014
		Indo-European	Bengali	Eastern India	54	15%	Debnath et al. 2011
		Indo-European	Tharu	Gorakhpur, India	38	13%	Chaubey et al. 2014
		Indo-European	Paharia	Northeastern India	100	13%	Borkar et al. 2011
	Mon-Khmer						
		Austro-Asiatic	Khasi	Meghalaya, India	92	73%	Kumar et al. 2007

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Austro-Asiatic	Khasi	Meghalaya	40	73%	Tamang et al. 2018
	Munda						
		Austro-Asiatic	Juang	Orissa, India	49	98%	Kumar et al. 2007
		Austro-Asiatic	Birjia	Jharkhand, India	24	96%	Kumar et al. 2007
		Austro-Asiatic	Savara	Andhra Pradesh, SE India	106	86%	Isukapatla et al. 2019
		Austro-Asiatic	Korku	Maharashtra, India	59	81%	Kumar et al. 2007
		Austro-Asiatic	Ho	East India	30	80%	Sengupta et al. 2006
		Austro-Asiatic	Santhal (Santal)	Northeastern India	90	78%	Borkar et al. 2011
		Austro-Asiatic	Ho	Northeastern India	28	75%	Borkar et al. 2011
		Austro-Asiatic	Kharia	Eastern India	34	74%	Debnath et al. 2011
		Austro-Asiatic	Santhal (Santal)	East India	14	71%	Sengupta et al. 2006
		Austro-Asiatic	Asur	Jharkhand, India	55	64%	Kumar et al. 2007
		Austro-Asiatic	Birhor	Jharkhand and West Bengal, India	38	63%	Kumar et al. 2007
		Austro-Asiatic	Bhumij	Jharkhand and West Bengal, India	89	63%	Kumar et al. 2007
		Austro-Asiatic	Korwa	Jharkhand and Chattisgarh, India	42	60%	Kumar et al. 2007
		Austro-Asiatic	Birhor	Northeastern India	100	52%	Borkar et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Austro-Asiatic	Santhal (Santal)	Jharkhand and West Bengal, India	109	47%	Kumar et al. 2007
		Austro-Asiatic	Munda	India: Jharkhand, West Bengal, Orissa	53	45%	Kumar et al. 2007
		Austro-Asiatic	Kol	Eastern India	62	42%	Debnath et al. 2011
		Austro-Asiatic	Kharia	India: Jharkhand, West Bengal, Orissa	36	39%	Kumar et al. 2007
		Austro-Asiatic	Munda	Northeastern India	94	38%	Borkar et al. 2011
		Austro-Asiatic	Ho	Orissa, India	79	38%	Kumar et al. 2007
		Austro-Asiatic	Santhal (Santal)	Eastern India	51	37%	Debnath et al. 2011
		Austro-Asiatic	Savara	India: Jharkhand, West Bengal, Orissa	47	15%	Kumar et al. 2007
		Austro-Asiatic	Mahali	Jharkhand and West Bengal, India	25	12%	Kumar et al. 2007
	Ngwi-Burmese						
		Tibeto-Burman	Marma	Bangladesh	60	73%	Gazi et al. 2013
	Sal						
		Tibeto-Burman	Mizo	Northeast India	27	96%	Sengupta et al. 2006
		Tibeto-Burman	Mizo	Mizoram	46	96%	Tamang et al. 2018
		Tibeto-Burman	Tripuri	Northeast India	21	90%	Sengupta et al. 2006
		Tibeto-Burman	Rabha	Eastern India	26	85%	Debnath et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	O-M175	Reference
		Tibeto-Burman	Mech	Eastern India	19	84%	Debnath et al. 2011
		Tibeto-Burman	Jamatia	Northeast India	30	83%	Sengupta et al. 2006
		Tibeto-Burman	Garo	Meghalaya, India	33	76%	Kumar et al. 2007
		Tibeto-Burman	Tripuri	Bangladesh	88	63%	Gazi et al. 2013
		Tibeto-Burman	Mech	Northeastern India	20	60%	Borkar et al. 2011
	Western Tibeto-Burman	Tibeto-Burman	Dhimal	Eastern India	36	50%	Debnath et al. 2011
		Tibeto-Burman	Ban Ravat	Uttarakhand	38	92%	Tamang et al. 2018
		Tibeto-Burman	Tamang	Nepal	45	87%	Gayden et al. 2007
		Tibeto-Burman	Subba	West Bengal	44	86%	Tamang et al. 2018
		Tibeto-Burman	Lachung	Northeastern India	20	50%	Borkar et al. 2011
		Tibeto-Burman	Lachungpa	Eastern India	11	36%	Debnath et al. 2011
		Tibeto-Burman	Sherpa	West Bengal	54	30%	Tamang et al. 2018
		Tibeto-Burman	Newar	Nepal	66	21%	Gayden et al. 2007
		Tibeto-Burman	Changpa	Jammu and Kashmir, India	50	10%	Tamang et al. 2018

Supplementary Table 16.2. Contemporary Distribution of O2a-002611.

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-002611	Reference
East Asia							
	Chinese						
	Chinese	Chinese	Bái	Hunan Province, Central China	14	50%	Xia et al. 2019
	Chinese	Chinese	Han	Feixian, Shandong, China	35	34%	Wang et al. 2013
	Chinese	Chinese	Han	Hunan, China	24	33%	Wang et al. 2013
	Chinese	Chinese	Han	Mouping, Shandong, China	48	25%	Wang et al. 2013
	Chinese	Chinese	Huí	Hunan Province, Central China	34	24%	Xia et al. 2019
	Chinese	Chinese	Han	Shandong, China	54	22%	Wang et al. 2013
	Chinese	Chinese	Han	Ningjin, Shandong, China	45	22%	Wang et al. 2013
	Chinese	Chinese	Han	Dezhou, Shandong, China	51	22%	Wang et al. 2013
	Chinese	Chinese	Han	Yiyuan, Shandong, China	28	21%	Wang et al. 2013
	Chinese	Chinese	Han	Gaotang, Shandong, China	29	21%	Wang et al. 2013
	Chinese	Chinese	Han	Zoucheng, Shandong, China	32	19%	Wang et al. 2013
	Chinese	Chinese	Han	Jiangsu, China	179	18%	Wang et al. 2013
	Chinese	Chinese	Han	Qingzhou, Shandong, China	22	18%	Wang et al. 2013
	Chinese	Chinese	Han	Anhui, China	72	18%	Wang et al. 2013

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-002611	Reference
		Chinese	Han	Lanzhou, Gansu, China	100	18%	Wang et al. 2013
		Chinese	Han	Shanghai, China	39	18%	Wang et al. 2013
		Chinese	Gàn	Hunan Province, Central China	103	17%	Xia et al. 2019
		Chinese	Han	Zhitai, Shandong, China	43	16%	Wang et al. 2013
		Chinese	SW Mandarin	Hunan Province, Central China	99	16%	Xia et al. 2019
		Chinese	Xiāng	Hunan Province, Central China	148	16%	Xia et al. 2019
		Chinese	Han	Lijin, Shandong, China	59	15%	Wang et al. 2013
		Chinese	Han	Rizhao, Shandong, China	33	15%	Wang et al. 2013
		Chinese	Han	Jiangxi, China	33	15%	Wang et al. 2013
		Chinese	Han	Henan, China	27	15%	Wang et al. 2013
		Chinese	Han	Sichuan, China	137	15%	Wang et al. 2013
		Chinese	Han	Zhejiang, China	70	14%	Wang et al. 2013
		Chinese	Taiwanese Han	Taiwan, China	352	14%	Trejaut et al. 2014
		Chinese	Han	Guangrao, Shandong, China	23	13%	Wang et al. 2013
		Chinese	Han	Pingliang, Gansu, China	203	13%	Wang et al. 2013
		Chinese	Han	Dongming, Shandong, China	40	13%	Wang et al. 2013
		Chinese	Hakka	Hunan Province, Central China	113	12%	Xia et al. 2019
		Chinese	Han	Heilongjiang, China	41	12%	Wang et al. 2013

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-002611	Reference
		Chinese	Han	Tianshui, Gansu, China	353	12%	Wang et al. 2013
		Chinese	Han	Penglai, Shandong, China	87	11%	Wang et al. 2013
		Chinese	Han	Qingyang, Gansu, China	61	11%	Wang et al. 2013
		Chinese	Han	Jilin, China	36	11%	Wang et al. 2013
		Chinese	Han	China	165	11%	Karafet et al. 2010
		Chinese	Han	Baiyin, Gansu, China	101	11%	Wang et al. 2013
		Chinese	Han	Zhangqiu, Shandong, China	48	10%	Wang et al. 2013
		Chinese	Han	Zhanhua, Shandong, China	30	10%	Wang et al. 2013
		Chinese	Han	Longnan, Gansu, China	121	10%	Wang et al. 2013
		Chinese	Han	Cangshan, Shandong, China	52	10%	Wang et al. 2013
		Chinese	Han	Shanghe, Shandong, China	48	8%	Wang et al. 2013
		Chinese	Han	Yanzhou, Shandong, China	24	8%	Wang et al. 2013
		Chinese	Han	Qihe, Shandong, China	25	8%	Wang et al. 2013
		Chinese	Han	Wuwei, Gansu, China	64	8%	Wang et al. 2013
		Chinese	Wǎxiāng	Hunan Province, Central China	39	8%	Xia et al. 2019
		Chinese	Han	Dingxi, Gansu, China	166	7%	Wang et al. 2013
		Chinese	Tǔhuà	Hunan Province, Central China	17	6%	Xia et al. 2019

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-002611	Reference
Formosan							
		Austronesian	Siraya (Tainen Coast)	Taiwan, China	38	29%	Trejaut et al. 2014
		Austronesian	Siraya (Kaohsiung)	Taiwan, China	40	18%	Trejaut et al. 2014
		Austronesian	Siraya (Hwalien)	Taiwan, China	38	13%	Trejaut et al. 2014
		Austronesian	Siraya (Tainan)	Taiwan, China	30	10%	Trejaut et al. 2014
		Austronesian	Siraya (Pingtun)	Taiwan, China	85	7%	Trejaut et al. 2014
		Austronesian	Papura	Taiwan, China	18	6%	Trejaut et al. 2014
		Austronesian	Pazeh	Taiwan, China	40	5%	Trejaut et al. 2014
Hmongic							
		Hmong-Mien	Miao	China	58	21%	Karafet et al. 2010
		Hmong-Mien	Hmong (White Hmong)	North Thailand	23	13%	Kutanan et al. 2020
		Hmong-Mien	Pathen	Vietnam	36	11%	Macholdt et al. 2020
		Hmong-Mien	Hmong	Hunan Province, Central China	95	5%	Xia et al. 2019
Kam-Tai							
		Tai-Kadai	Central Thai	Central Thailand	19	15%	Kutanan et al. 2019
		Tai-Kadai	Seak	Northeast Thailand	7	14%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Western Thailand	18	12%	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	17	12%	Kutanan et al. 2019
		Tai-Kadai	Lue	North Thailand	17	12%	Kutanan et al. 2019
		Tai-Kadai	Thai	Northern Thailand	17	12%	He et al. 2012
		Tai-Kadai	Laolsan	Northeast Thailand	9	11%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	North Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	18	6%	Kutanan et al. 2019

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-002611	Reference
		Tai-Kadai	Central Thai	Central Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Khon Mueang	North Thailand	17	6%	Kutanan et al. 2019
		Tai-Kadai	Lao	Vientiane, Laos	59	5%	Wang et al. 2013
		Tai-Kadai	Central Thai	Central Thailand	19	5%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	19	5%	Kutanan et al. 2019
	Koreanic						
		Koreanic	Koreans	Korea	706	10%	Kwon et al. 2015
		Koreanic	Koreans	Korea	706	10%	Park et al. 2012
		Koreanic	Koreans	Jilin, Dunhua, China	203	9%	Wang et al. 2013
	Mienic						
		Hmong-Mien	Pahng	Hunan Province, Central China	21	24%	Xia et al. 2019
		Hmong-Mien	Mien	Hunan Province, Central China	33	18%	Xia et al. 2019
		Hmong-Mien	IuMien	North Thailand	17	18%	Kutanan et al. 2020
		Hmong-Mien	IuMien	North Thailand	10	10%	Kutanan et al. 2020
	Mongolic						
		Mongolic	Mongols	Inner Mongolia, Chifeng, China	76	7%	Wang et al. 2013
	Mon-Khmer						
		Austro-Asiatic	Vietnamese	Vietnam	70	14%	Karafet et al. 2010
		Austro-Asiatic	Kinh	Vietnam	50	14%	Macholdt et al. 2020
		Austro-Asiatic	Mon	Western Thailand	15	7%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Central Thailand	14	7%	Kutanan et al. 2019
		Austro-Asiatic	Bo	Khamkheut, Laos	29	7%	Wang et al. 2013
		Austro-Asiatic	Kataang	Salavan, Laos	38	5%	Wang et al. 2013

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-002611	Reference
		Austro-Asiatic	Suy	Salavan, Laos	39	5%	Wang et al. 2013
		Austro-Asiatic	Mon	Northeast Thailand	19	5%	Kutanan et al. 2019
	Ngwi-Burmese						
		Tibeto-Burman	Yi (Yizu)	Yunnan Province, SW China	283	8%	Guo et al. 2019
		Tibeto-Burman	Mussur/Lahu (Black Lahu)	North Thailand	17	6%	Kutanan et al. 2020
	Northeastern Tibeto-Burman						
		Tibeto-Burman	Mandarin Tǔjiā	Hunan Province, Central China	53	13%	Xia et al. 2019
		Tibeto-Burman	Northern Tǔjiā	Hunan Province, Central China	24	13%	Xia et al. 2019
		Tibeto-Burman	Bai	Yunnan Province, SW China	278	10%	Guo et al. 2019
		Tibeto-Burman	Southern Tǔjiā	Hunan Province, Central China	12	8%	Xia et al. 2019
		Tibeto-Burman	Tujia	China	49	8%	Karafet et al. 2010
		Tibeto-Burman	Baima	Wenxian, Gansu, China	136	7%	Wang et al. 2013
	Western Tibeto-Burman						
		Tibeto-Burman	Khams (Xinlong)	Sichuan, China	46	15%	Wang et al. 2014
Island Southeast Asia							
	Malayo-Polynesian						
		Austronesian	Kletek Rainan	West Timor	17	6%	Tumonggor et al. 2014

Supplementary Table 16.3. Contemporary Distribution of O2a-M117.

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-M117	Reference
East Asia							
	Central Tibeto-Burman						
		Tibeto-Burman	Deng	Tibet	90	63%	Kang et al. 2012
	Chinese						
	Chinese		Huí	Hunan Province, Central China	34	24%	Xia et al. 2019
	Chinese		Han	South China	158	23%	Ning et al. 2016
	Chinese		Taiwanese Han	Taiwan, China	352	22%	Trejaut et al. 2014
	Chinese		Pinghua	Tiandong, Guangxi, China	20	20%	Lu et al. 2013
	Chinese		Han	North China	225	18%	Ning et al. 2016
	Chinese		Han	Northeast China	80	18%	Ning et al. 2016
	Chinese		Han	Guangxi, China	82	17%	Zhao et al. 2010
	Chinese		Hakka	Hunan Province, Central China	113	16%	Xia et al. 2019
	Chinese		Han	East China	450	15%	Ning et al. 2016
	Chinese		Pinghua	Guangxi, China	101	15%	Gan et al. 2008
	Chinese		Han	Chendu, China	34	15%	Xue et al. 2006
	Chinese		Han	Harbin, China	35	14%	Xue et al. 2006
	Chinese		SW Mandarin	Hunan Province, Central China	99	14%	Xia et al. 2019
	Chinese		Xiāng	Hunan Province, Central China	148	13%	Xia et al. 2019
	Chinese		Wǎxiāng	Hunan Province, Central China	39	13%	Xia et al. 2019

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-M117	Reference
		Chinese	Tǔhuà	Hunan Province, Central China	17	12%	Xia et al. 2019
		Chinese	Han	Meixian, China	35	11%	Xue et al. 2006
		Chinese	Han	Northwest China	47	11%	Ning et al. 2016
		Chinese	Pinghua	Nanning, Guangxi, China	38	11%	Lu et al. 2013
		Chinese	Han	Lanzhou, China	30	10%	Xue et al. 2006
		Chinese	Gàn	Hunan Province, Central China	103	9%	Xia et al. 2019
		Chinese	Han	China	93	9%	Ning et al. 2016
		Chinese	Han	Southwest China	36	8%	Ning et al. 2016
		Chinese	Han	Yili, China	32	6%	Xue et al. 2006
	Formosan						
		Austronesian	Yunlin	Taiwan, China	21	38%	Trejaut et al. 2014
		Austronesian	Siraya (Kaohsiung)	Taiwan, China	40	35%	Trejaut et al. 2014
		Austronesian	Papura	Taiwan, China	18	22%	Trejaut et al. 2014
		Austronesian	Kategalan	Taiwan, China	30	17%	Trejaut et al. 2014
		Austronesian	Siraya (Tainen Coast)	Taiwan, China	38	13%	Trejaut et al. 2014
		Austronesian	Pazeh	Taiwan, China	40	10%	Trejaut et al. 2014
		Austronesian	Siraya (Tainan)	Taiwan, China	30	10%	Trejaut et al. 2014
		Austronesian	Siraya (Hwalien)	Taiwan, China	38	8%	Trejaut et al. 2014
	Hmongic						
		Hmong-Mien	Hmong (Black Hmong)	North Thailand	19	16%	Kutanan et al. 2020
		Hmong-Mien	Pa Then	Southern China	31	13%	Cai et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-M117	Reference
		Hmong-Mien	Miao (Hunan)	Southern China	100	9%	Cai et al. 2011
		Hmong-Mien	Hmong (Daw)	Southern China	51	8%	Cai et al. 2011
		Hmong-Mien	Miao (Yunnan)	Southern China	49	6%	Cai et al. 2011
	Ho Nte	Hmong-Mien	She	Southeastern China	34	18%	Xue et al. 2006
	Ho The						
		Hmong-Mien	She (Northern)	Southern China	56	9%	Cai et al. 2011
	Kam-Tai						
		Tai-Kadai	Khon Mueang	North Thailand	13	46%	Kutanan et al. 2019
		Tai-Kadai	Dai	Yunnan Province, SW China	251	42%	Xu et al. 2019
		Tai-Kadai	Central Thai	Western Thailand	18	40%	Kutanan et al. 2019
		Tai-Kadai	Shan	North Thailand	20	40%	Kutanan et al. 2020
		Tai-Kadai	Shan	North Thailand	18	39%	Kutanan et al. 2019
		Tai-Kadai	Khon Mueang	North Thailand	17	35%	Kutanan et al. 2019
		Tai-Kadai	Shan	Northern Thailand	20	35%	Brunelli et al. 2017
		Tai-Kadai	Khon Mueang	North Thailand	13	31%	Kutanan et al. 2019
		Tai-Kadai	Yuan	North Thailand	14	29%	Kutanan et al. 2019
		Tai-Kadai	Lingao	Hainan, China	30	27%	Li et al. 2008
		Tai-Kadai	Laotian	Laos	20	25%	Kutanan et al. 2019
		Tai-Kadai	Khon Muang	Northern Thailand	191	24%	Brunelli et al. 2017
		Tai-Kadai	Khon Mueang	North Thailand	17	24%	Kutanan et al. 2019
		Tai-Kadai	Phuan	North Thailand	17	24%	Kutanan et al. 2019
		Tai-Kadai	Kalueng	Northeast Thailand	17	24%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	18	22%	Kutanan et al. 2019

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-M117	Reference
	Tai-Kadai	Phutai		Northeast Thailand	24	21%	Kutanan et al. 2020
	Tai-Kadai	Zhuàng		Hunan Province, Central China	5	20%	Xia et al. 2019
	Tai-Kadai	Lao Isan		Northeast Thailand	16	19%	Kutanan et al. 2020
	Tai-Kadai	Lue		North Thailand	17	18%	Kutanan et al. 2019
	Tai-Kadai	Yuan		Northern Thailand	85	18%	Brunelli et al. 2017
	Tai-Kadai	Lue		Northern Thailand	91	18%	Brunelli et al. 2017
	Tai-Kadai	Central Thai		Central Thailand	18	17%	Kutanan et al. 2019
	Tai-Kadai	Nyaw		Northeast Thailand	18	17%	Kutanan et al. 2019
	Tai-Kadai	Kuen		Northern Thailand	24	17%	Brunelli et al. 2017
	Tai-Kadai	Central Thai		Central Thailand	19	16%	Kutanan et al. 2019
	Tai-Kadai	Zhuang		Guangxi, China	39	15%	
	Tai-Kadai	Tay		Vietnam	47	15%	Macholdt et al. 2020
	Tai-Kadai	Lue		North Thailand	13	15%	Kutanan et al. 2019
	Tai-Kadai	Khuen		North Thailand	17	12%	Kutanan et al. 2019
	Tai-Kadai	Yong		Northern Thailand	26	12%	Brunelli et al. 2017
	Tai-Kadai	Laolsan		Northeast Thailand	9	11%	Kutanan et al. 2019
	Tai-Kadai	Black Thai		Northeast Thailand	18	11%	Kutanan et al. 2019
	Tai-Kadai	Central Thai		North Thailand	18	11%	Kutanan et al. 2019
	Tai-Kadai	Central Thai		Central Thailand	19	11%	Kutanan et al. 2019
	Tai-Kadai	Dong		Guangxi, China	38	11%	Li et al. 2008
	Tai-Kadai	Chadong		Guangxi, China	21	10%	Deng et al. 2013
	Tai-Kadai	Zhuang		Guangxi, China	21	10%	Gan et al. 2008
	Tai-Kadai	Thai		Vietnam	24	8%	Macholdt et al. 2020
	Tai-Kadai	Zhuang		Guangxi, China	63	8%	Zhao et al. 2010

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-M117	Reference
		Tai-Kadai	Phuan	Central Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Black Thai	Central Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	17	6%	Kutanan et al. 2019
		Tai-Kadai	Laotian	Laos	20	5%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	19	5%	Kutanan et al. 2019
	Karenic						
		Tibeto-Burman	Karen (Skaw Karen)	North Thailand	15	67%	Kutanan et al. 2020
		Tibeto-Burman	Karen (Skaw)	North Thailand	8	38%	Kutanan et al. 2019
		Tibeto-Burman	Karen (Paduang)	North Thailand	11	36%	Kutanan et al. 2019
		Tibeto-Burman	Karen (Pwo)	North Thailand	11	27%	Kutanan et al. 2019
		Tibeto-Burman	Karen (Skaw)	North Thailand	12	25%	Kutanan et al. 2019
	Koreanic						
		Koreanic	Koreans	Korea	706	13%	Kwon et al. 2015
		Koreanic	Koreans	Korea	706	13%	Park et al. 2012
	Kra						
		Tai-Kadai	Lachi	Yunnan, China	30	23%	Li et al. 2008
		Tai-Kadai	Red Gelao	Guizhou, China	31	16%	Li et al. 2008
		Tai-Kadai	Qau	Guizhou, China	13	8%	Li et al. 2008
	Mienic						
		Hmong-Mien	Mien (Straggler)	Southern China	20	35%	Cai et al. 2011
		Hmong-Mien	Kimmun (Blue)	Southern China	28	32%	Cai et al. 2011
		Hmong-Mien	Mien (Western)	Southern China	47	23%	Cai et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-M117	Reference
		Hmong-Mien	IuMien	North Thailand	10	20%	Kutanan et al. 2020
		Hmong-Mien	Mien (Northern)	Southern China	33	18%	Cai et al. 2011
		Hmong-Mien	Yao (Lowland)	Southern China	31	16%	Cai et al. 2011
		Hmong-Mien	Yao (Liannan)	Southern China	35	14%	Xue et al. 2006
		Hmong-Mien	Zaomin	Southern China	37	14%	Cai et al. 2011
		Hmong-Mien	Kimmun (Lowland)	Southern China	41	12%	Cai et al. 2011
		Hmong-Mien	IuMien	North Thailand	17	12%	Kutanan et al. 2020
		Hmong-Mien	Mien (Native)	Southern China	41	7%	Cai et al. 2011
		Hmong-Mien	Mien (Southern)	Southern China	31	6%	Cai et al. 2011
		Hmong-Mien	Kimmun (Mountain)	Southern China	32	6%	Cai et al. 2011
		Hmong-Mien	Mien	Hunan Province, Central China	33	6%	Xia et al. 2019
	Mongolic						
		Mongolic	Daur	Northeastern China	39	8%	Xue et al. 2006
		Mongolic	Mongols	Mongolia	160	6%	Di Cristofaro et al. 2013
	Mon-Khmer						
		Austro-Asiatic	Paluang	North Thailand	18	50%	Kutanan et al. 2019
		Austro-Asiatic	Bit	Southern China	28	32%	Cai et al. 2011
		Austro-Asiatic	Mon	Central Thailand	13	31%	Kutanan et al. 2019
		Austro-Asiatic	Nyahkur	Northeast Thailand	21	29%	Kutanan et al. 2019
		Austro-Asiatic	Ava	Southern China	29	28%	Cai et al. 2011
		Austro-Asiatic	Mon	Northern Thailand	18	22%	Brunelli et al. 2017
		Austro-Asiatic	Mon	Central Thailand	14	21%	Kutanan et al. 2019
		Austro-Asiatic	Lawa (Western)	North Thailand	15	20%	Kutanan et al. 2019

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-M117	Reference
		Austro-Asiatic	Mon	Western Thailand	18	17%	Kutanan et al. 2019
		Austro-Asiatic	Blang	North Thailand	18	17%	Kutanan et al. 2019
		Austro-Asiatic	Kataang	Laos	38	16%	Cai et al. 2011
		Austro-Asiatic	Mon	Central Thailand	14	14%	Kutanan et al. 2019
		Austro-Asiatic	Mal	Laos	50	14%	Cai et al. 2011
		Austro-Asiatic	Khmu	Laos	51	14%	Cai et al. 2011
		Austro-Asiatic	Soa	Northeast Thailand	17	12%	Kutanan et al. 2019
		Austro-Asiatic	Blang	Laos	52	12%	Cai et al. 2011
		Austro-Asiatic	Palyu	Southern China	30	10%	Cai et al. 2011
		Austro-Asiatic	Lawa	Northern Thailand	50	10%	Brunelli et al. 2017
		Austro-Asiatic	Bolyu	Guangxi, China	30	10%	Li et al. 2008
		Austro-Asiatic	Bugan	Southern China	32	9%	Cai et al. 2011
		Austro-Asiatic	Mon	North Thailand	12	8%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Western Thailand	15	7%	Kutanan et al. 2019
		Austro-Asiatic	Xinhmul	Laos	29	7%	Cai et al. 2011
		Austro-Asiatic	Khmu	Northeast Thailand	18	6%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Northeast Thailand	19	5%	Kutanan et al. 2019
Ngwi-Burmese							
		Tibeto-Burman	Hanhi	Vietnam	33	36%	Macholdt et al. 2020
		Tibeto-Burman	Mussur/Lahu (Black Lahu)	North Thailand	17	18%	Kutanan et al. 2020
		Tibeto-Burman	Yi (Yizu)	Yunnan Province, SW China	283	17%	Guo et al. 2019
		Tibeto-Burman	Lisu	North Thailand	15	13%	Kutanan et al. 2020
		Tibeto-Burman	Lahu	Vietnam	31	13%	Macholdt et al. 2020

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-M117	Reference
		Tibeto-Burman	Mussur/Lahu (Red Lahu)	North Thailand	16	13%	Kutanan et al. 2020
		Tibeto-Burman	Phula	Vietnam	35	9%	Macholdt et al. 2020
		Tibeto-Burman	Hani	Southern China	34	6%	Xue et al. 2006
	Northeastern Tibeto-Burman						
		Tibeto-Burman	Horpa (Danba)	Sichuan, China	18	22%	Wang et al. 2014
		Tibeto-Burman	Bai	Yunnan Province, SW China	278	14%	Guo et al. 2019
		Tibeto-Burman	Mandarin Tǔjiǎ	Hunan Province, Central China	53	13%	Xia et al. 2019
		Tibeto-Burman	Qiang	Central China	33	9%	Xue et al. 2006
	Sal						
		Tibeto-Burman	Jingpo	Yunnan Province, SW China	249	47%	Xu et al. 2019
	Tai-Kadai						
		Tai-Kadai	Lachi	Vietnam	36	22%	Macholdt et al. 2020
	Tungusic						
		Tungusic	Manchu	China	16	50%	Ning et al. 2016
		Tungusic	Nanai (Hezhe)	Northeastern China	45	16%	Xue et al. 2006
		Tungusic	Evenks	Northern China	26	15%	Xue et al. 2006
		Tungusic	Manchu	Northeastern China	35	14%	Xue et al. 2006
	Turkic						
		Turkic	Uyghurs	Northwestern China	39	5%	Xue et al. 2006
	Western Tibeto-Burman						
		Tibeto-Burman	Luoba	Tibet	130	31%	Kang et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-M117	Reference
		Tibeto-Burman	Tibetans	Tibet	2354	30%	Qi et al. 2013
		Tibeto-Burman	Khams (Yajiang)	Sichuan, China	47	19%	Wang et al. 2014
		Tibeto-Burman	Khams (Xinlong)	Sichuan, China	46	11%	Wang et al. 2014
Island Southeast Asia							
	Malayo-Polynesian						
		Austronesian	Bugis	Indonesia	15	7%	Li et al. 2008
South Asia							
	Indo-Aryan						
		Indo-European	Tharu	Chitwan, Nepal	57	49%	Fornarino et al. 2009
		Indo-European	Rajbanshi	Eastern India	51	43%	Debnath et al. 2011
		Indo-European	Tharu	Chitwan, Nepal	77	29%	Fornarino et al. 2009
		Indo-European	Tharu	Morang, Nepal	37	19%	Fornarino et al. 2009
		Indo-European	Bengali	Eastern India	54	7%	Debnath et al. 2011
	Sal						
		Tibeto-Burman	Rabha	Eastern India	26	58%	Debnath et al. 2011
		Tibeto-Burman	Mech	Eastern India	19	47%	Debnath et al. 2011
		Tibeto-Burman	Dhimal	Eastern India	36	42%	Debnath et al. 2011
	Western Tibeto-Burman						
		Tibeto-Burman	Tamang	Nepal	45	84%	Gayden et al. 2007
		Tibeto-Burman	Newar	Nepal	66	21%	Gayden et al. 2007
		Tibeto-Burman	Lachungpa	Eastern India	11	9%	Debnath et al. 2011

Supplementary Table 16.4 Contemporary Distribution of O2a-F114.

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-F114	Reference
East Asia							
Chinese							
		Chinese	Han	Northwest China	47	19%	Ning et al. 2016
		Chinese	Han	North China	225	15%	Ning et al. 2016
		Chinese	Han	China	93	15%	Ning et al. 2016
		Chinese	Han	East China	450	14%	Ning et al. 2016
		Chinese	Han	Southwest China	36	14%	Ning et al. 2016
		Chinese	Han	Northeast China	80	11%	Ning et al. 2016
		Chinese	Han	South China	158	9%	Ning et al. 2016
Hmongic							
		Hmong-Mien	Hmong (Black Hmong)	North Thailand	19	11%	Kutanan et al. 2020
Kam-Tai							
		Tai-Kadai	Central Thai	Central Thailand	18	17%	Kutanan et al. 2019
		Tai-Kadai	Phuan	Central Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	19	5%	Kutanan et al. 2019
		Tai-Kadai	Shan	North Thailand	20	5%	Kutanan et al. 2020
Koreanic							
		Koreanic	Koreans	Korea	706	10%	Kwon et al. 2015
Mienic							
		Hmong-Mien	Dao	Vietnam	43	28%	Macholdt et al. 2020
		Hmong-Mien	IuMien	North Thailand	10	10%	Kutanan et al. 2020
Mon-Khmer							
		Austro-Asiatic	Paluang	North Thailand	18	11%	Kutanan et al. 2019

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-F114	Reference
		Austro-Asiatic	Mon	Central Thailand	14	7%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Central Thailand	14	7%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Western Thailand	15	7%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Northeast Thailand	19	5%	Kutanan et al. 2019
	Tungusic	Tungusic	Manchu	China	16	19%	Ning et al. 2016

Supplementary Table 16.5. Ancient O-M175 Mutations.

Mutation	Death	Master ID	Culture 2	Region	Location	Country	Reference
O1a-M119							
	4700	LIANGZHU006	Neolithic	East Asia	Xindili, Yangtze River Delta	China	Li et al. 2007
	4700	LIANGZHU002	Neolithic	East Asia	Maqiao, Yangtze River Delta	China	Li et al. 2007
	4700	LIANGZHU004	Neolithic	East Asia	Maqiao, Yangtze River Delta	China	Li et al. 2007
	4700	LIANGZHU005	Neolithic	East Asia	Xindili, Yangtze River Delta	China	Li et al. 2007
	4700	LIANGZHU009	Neolithic	East Asia	Xindili, Yangtze River Delta	China	Li et al. 2007
	4700	LIANGZHU007	Neolithic	East Asia	Xindili, Yangtze River Delta	China	Li et al. 2007
	4700	LIANGZHU003	Neolithic	East Asia	Maqiao, Yangtze River Delta	China	Li et al. 2007
	4700	LIANGZHU001	Neolithic	East Asia	Maqiao, Yangtze River Delta	China	Li et al. 2007
	4700	LIANGZHU008	Neolithic	East Asia	Xindili, Yangtze River Delta	China	Li et al. 2007
O1a-M307							
	2475	TON002	Oceanic	Oceania	Tongatapu	Tonga	Prosth et al. 2018; Reich Dataset V42.4 (2020)
O1b-F2320							
	3717	I2731	Neolithic	East Asia	Man Bac	Vietnam	Lipson et al. 2018; Reich Dataset V42.4 (2020)
O1b-M95							

Mutation	Death	Master ID	Culture 2	Region	Location	Country	Reference
	5900	DAXI001	Neolithic	East Asia	Three Gorges Region and Middle Yangtze	China	Li et al. 2007
	3300	WUCHENG001	Bronze Age	East Asia	Gan River, Jianxi Province	China	Li et al. 2007
	3300	WUCHENG002	Bronze Age	East Asia	Gan River, Jianxi Province	China	Li et al. 2007
	2976	La364	Neolithic	East Asia	Northeast Huapan, Tam Pa Ping	Laos	McColl et al. 2018; Reich Dataset V42.4 (2020)
	2520	Ma912	Neolithic	East Asia	West Peninsular Kelantan, Gua Cha Cave	Malaysia	McColl et al. 2018; Reich Dataset V42.4 (2020)
	1717	Th521	Iron Age	East Asia	Northern Mae Hong Son, Long Long Rak	Thailand	McColl et al. 2018; Reich Dataset V42.4 (2020)
O1b-Page59							
	5000	WGM94	Neolithic	East Asia	Wanggou, Yellow River Basin	China	Ning et al. 2020
O2a-002611							
	3764	I1137	Neolithic	East Asia	Man Bac	Vietnam	Lipson et al. 2018; Reich Dataset V42.4 (2020)
	3494	EDM124	Neolithic	East Asia	Erdaojingzi, West Liao River Basin	China	Ning et al. 2020
O2a-F114							
	3983	WD-WT1H16	Neolithic	East Asia	Wadian, Yellow River Basin	China	Ning et al. 2020
	3800	LJM14	Neolithic	East Asia	Lajia, Yellow River Basin	China	Ning et al. 2020
	3000	JXNTM2	Bronze Age	East Asia	Jiaozuoniecun, Yellow River Basin	China	Ning et al. 2020
O2a-M117							

Mutation	Death	Master ID	Culture 2	Region	Location	Country	Reference
	4000	MG48	Bronze Age	East Asia	Mogou cemetery, Upper Yellow River, Ganqing Region	China	Li et al. 2017
	3838	HJTM109	Neolithic	East Asia	Haojiatai, Yellow River Basin	China	Ning et al. 2020
	2900	XIAJIADIAN005	Bronze Age	East Asia	Dashanqian site, Inner Mongolia	China	Cui et al. 2013
	2900	XIAJIADIAN006	Bronze Age	East Asia	Dashanqian site, Inner Mongolia	China	Cui et al. 2013
O2a-M133							
	3985	SM-SGDLM6	Neolithic	East Asia	Shengedaliang, Shaanxi	China	Ning et al. 2020
	3913	LJM3	Neolithic	East Asia	Lajia, Yellow River Basin	China	Ning et al. 2020
	3834	JCKM1-1	Neolithic	East Asia	Jinchankou, Yellow River Basin	China	Ning et al. 2020
	3800	LJM5	Neolithic	East Asia	Lajia, Yellow River Basin	China	Ning et al. 2020
	2775	C1	High Altitude	South Asia	Chokhopani Tomb, Nepal	Nepal	Jeong et al. 2016; Reich Dataset V42.4 (2020)
	2000	LGM41	Iron Age	East Asia	Luoheguxiang, Yellow River Basin	China	Ning et al. 2020
	1822	DCZ-M21II	Iron Age	East Asia	Dacaozi site, Qinghai province, Yellow River Valley	China	Ning et al. 2020
O2a-M134							
	4200	LONGSHAN004	Neolithic	East Asia	Wunan River, Shandong Province	China	Li et al. 2007
O2a-M324							

Mutation	Death	Master ID	Culture 2	Region	Location	Country	Reference
	5300	BLSM41	Neolithic	East Asia	Banlashan, West Liao River Basin	China	Ning et al. 2020
O2a-M7							
	5900	DAXI005	Neolithic	East Asia	Three Gorges Region and Middle Yangtze	China	Li et al. 2007
	5900	DAXI004	Neolithic	East Asia	Three Gorges Region and Middle Yangtze	China	Li et al. 2007
	5900	DAXI006	Neolithic	East Asia	Three Gorges Region and Middle Yangtze	China	Li et al. 2007
	5900	DAXI007	Neolithic	East Asia	Three Gorges Region and Middle Yangtze	China	Li et al. 2007
	5900	DAXI003	Neolithic	East Asia	Three Gorges Region and Middle Yangtze	China	Li et al. 2007
O2a-N6							
	2625	Vt778	Neolithic	East Asia	Northwest Lai Châu, Nam Tun	Vietnam	McColl et al. 2018; Reich Dataset V42.4 (2020)
O2a-P201							
	5800	HONGSHAN001	Neolithic	East Asia	Niuheliang site, Liaoning Province	China	Cui et al. 2013
	4000	MG53	Bronze Age	East Asia	Mogou cemetery, Upper Yellow River, Ganqing Region	China	Li et al. 2017
	4000	MG44	Bronze Age	East Asia	Mogou cemetery, Upper Yellow River, Ganqing Region	China	Li et al. 2017
	4000	MG18	Bronze Age	East Asia	Mogou cemetery, Upper Yellow River, Ganqing Region	China	Li et al. 2017

Mutation	Death	Master ID	Culture 2	Region	Location	Country	Reference
	4000	MG9	Bronze Age	East Asia	Mogou cemetery, Upper Yellow River, Ganqing Region	China	Li et al. 2017
	4000	MG3	Bronze Age	East Asia	Mogou cemetery, Upper Yellow River, Ganqing Region	China	Li et al. 2017
	3900	XIAJIADIAN001	Bronze Age	East Asia	Dadianzi site, Inner Mongolia	China	Cui et al. 2013
	3900	XIAJIADIAN002	Bronze Age	East Asia	Dadianzi site, Inner Mongolia	China	Cui et al. 2013
	2900	XIAJIADIAN003	Bronze Age	East Asia	Dashanqian site, Inner Mongolia	China	Cui et al. 2013
	2900	XIAJIADIAN004	Bronze Age	East Asia	Dashanqian site, Inner Mongolia	China	Cui et al. 2013
O2-M122							
	5900	DAXI002	Neolithic	East Asia	Three Gorges Region and Middle Yangtze	China	Li et al. 2007
	4200	LONGSHAN003	Neolithic	East Asia	Wunan River, Shandong Province	China	Li et al. 2007
	4200	LONGSHAN002	Neolithic	East Asia	Wunan River, Shandong Province	China	Li et al. 2007
	4200	LONGSHAN001	Neolithic	East Asia	Wunan River, Shandong Province	China	Li et al. 2007
	3300	WUCHENG003	Bronze Age	East Asia	Gan River, Jianxi Province	China	Li et al. 2007

Supplementary Table 16.6. Contemporary Distribution of O1a-M307.

Region	Language Group	Language Family	Population	Location	Sample Size	O1a-M307	Reference
East Asia							
	Chinese						
		Chinese	Taiwanese Han	Taiwan, China	352	14%	Trejaut et al. 2014
		Chinese	Han	China	165	9%	Karafet et al. 2010
		Chinese	Pinghua	Nanning, Guangxi, China	38	8%	Lu et al. 2013
		Chinese	Pinghua	Tiandong, Guangxi, China	20	5%	Lu et al. 2013
	Formosan						
		Austronesian	Taroko	Taiwan, China	20	95%	Trejaut et al. 2014
		Austronesian	Atayal	Taiwan, China	52	90%	Trejaut et al. 2014
		Austronesian	Tsou	Taiwan, China	41	90%	Trejaut et al. 2014
		Austronesian	Saisiyat	Taiwan, China	24	88%	Trejaut et al. 2014
		Austronesian	Thao	Taiwan, China	16	88%	Trejaut et al. 2014
		Austronesian	Rukai	Taiwan, China	29	69%	Trejaut et al. 2014
		Austronesian	Pazeh	Taiwan, China	40	53%	Trejaut et al. 2014
		Austronesian	Puyuma	Taiwan, China	23	48%	Trejaut et al. 2014
		Austronesian	Siraya (Hwalien)	Taiwan, China	38	45%	Trejaut et al. 2014
		Austronesian	Amis	Taiwan, China	39	41%	Trejaut et al. 2014
		Austronesian	Paiwan	Taiwan, China	25	40%	Trejaut et al. 2014
		Austronesian	Siraya (Pingtun)	Taiwan, China	85	35%	Trejaut et al. 2014
		Austronesian	Yunlin	Taiwan, China	21	33%	Trejaut et al. 2014
		Austronesian	Kategalan	Taiwan, China	30	30%	Trejaut et al. 2014
		Austronesian	Siraya (Tainan)	Taiwan, China	30	30%	Trejaut et al. 2014

Region	Language Group	Language Family	Population	Location	Sample Size	O1a-M307	Reference
		Austronesian	Siraya (Kaohsiung)	Taiwan, China	40	15%	Trejaut et al. 2014
		Austronesian	Papura	Taiwan, China	18	6%	Trejaut et al. 2014
	Hmongic						
		Hmong-Mien	Pathen	Vietnam	36	8%	Macholdt et al. 2020
		Hmong-Mien	Miao	China	58	7%	Karafet et al. 2010
		Hmong-Mien	Hmong	Vietnam	41	5%	Macholdt et al. 2020
	Kam-Tai						
		Tai-Kadai	Mulam	Guangxi, China	51	29%	Deng et al. 2013
		Tai-Kadai	Phuan	Central Thailand	18	23%	Kutanan et al. 2019
		Tai-Kadai	Phutai	Northeast Thailand	18	22%	Kutanan et al. 2019
		Tai-Kadai	Shan	North Thailand	20	15%	Kutanan et al. 2020
		Tai-Kadai	Laolsan	Northeast Thailand	18	12%	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	18	12%	Kutanan et al. 2019
		Tai-Kadai	Thai	Northern Thailand	17	12%	He et al. 2012
		Tai-Kadai	Central Thai	Central Thailand	19	10%	Kutanan et al. 2019
		Tai-Kadai	Yuan	Central Thailand	12	8%	Kutanan et al. 2019
		Tai-Kadai	Lue	North Thailand	13	8%	Kutanan et al. 2019
		Tai-Kadai	Tay	Vietnam	47	8%	Macholdt et al. 2020
		Tai-Kadai	Yong	Northern Thailand	26	8%	Brunelli et al. 2017
		Tai-Kadai	Lue	Northern Thailand	91	7%	Brunelli et al. 2017
		Tai-Kadai	Black Thai	Northeast Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Shan	North Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Lue	North Thailand	17	6%	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	17	6%	Kutanan et al. 2019

Region	Language Group	Language Family	Population	Location	Sample Size	O1a-M307	Reference
		Tai-Kadai	Khon Mueang	North Thailand	17	6%	Kutanan et al. 2019
		Tai-Kadai	Colao	Vietnam	34	6%	Macholdt et al. 2020
		Tai-Kadai	Central Thai	Central Thailand	19	5%	Kutanan et al. 2019
		Tai-Kadai	Laotian	Laos	20	5%	Kutanan et al. 2019
		Tai-Kadai	Shan	Northern Thailand	20	5%	Brunelli et al. 2017
	Karenic						
		Tibeto-Burman	Karen (Skaw)	North Thailand	12	8%	Kutanan et al. 2019
	Malayo-Polynesian						
		Austronesian	Yami	Taiwan, China	30	50%	Trejaut et al. 2014
	Mienic						
		Hmong-Mien	Dao	Vietnam	43	10%	Macholdt et al. 2020
	Mon-Khmer						
		Austro-Asiatic	Htin (Pray)	North Thailand	12	17%	Kutanan et al. 2019
		Austro-Asiatic	Mon	North Thailand	12	16%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Northeast Thailand	19	11%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Western Thailand	15	7%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Central Thailand	14	7%	Kutanan et al. 2019
		Austro-Asiatic	Vietnamese	Vietnam	76	7%	He et al. 2012
		Austro-Asiatic	Vietnamese	Vietnam	70	6%	Karafet et al. 2010
		Austro-Asiatic	Mon	Northern Thailand	18	6%	Brunelli et al. 2017
		Austro-Asiatic	Suay	Northeast Thailand	20	5%	Kutanan et al. 2019
	Ngwi-Burmese						
		Tibeto-Burman	Yi (Yizu)	Yunnan Province, SW China	283	7%	Guo et al. 2019
		Tibeto-Burman	Hanhi	Vietnam	33	6%	Macholdt et al. 2020

Region	Language Group	Language Family	Population	Location	Sample Size	O1a-M307	Reference
	Northeastern Tibeto-Burman						
		Tibeto-Burman	Horpa (Daofu)	Sichuan, China	16	25%	Wang et al. 2014
		Tibeto-Burman	Tujia	China	49	8%	Karafet et al. 2010
		Tibeto-Burman	Bai	Yunnan Province, SW China	278	8%	Guo et al. 2019
	Tai-Kadai						
		Tai-Kadai	Lachi	Vietnam	36	47%	Macholdt et al. 2020
	Western Tibeto-Burman						
		Tibeto-Burman	Khams (Yajiang)	Sichuan, China	47	21%	Wang et al. 2014
		Tibeto-Burman	Khams (Xinlong)	Sichuan, China	46	9%	Wang et al. 2014
Island Southeast Asia							
	Malayo-Polynesian						
		Austronesian	Nias	Nias, Indonesia	60	87%	Karafet et al. 2010
		Austronesian	Mentawai Islanders	Mentawai, Indonesia	74	28%	Karafet et al. 2010
		Austronesian	Filipinos	Philippines	146	14%	Trejaut et al. 2014
		Austronesian	Balinese	Bali	641	11%	Karafet et al. 2010
		Austronesian	Ma'anyan	Borneo	159	10%	Kusuma et al. 2015
		Austronesian	Javanese	Java, Indonesia	61	10%	Karafet et al. 2010
		Austronesian	Flores Islanders	Flores, Indonesia	394	9%	Karafet et al. 2010
		Austronesian	Umaklaran	West Timor	41	7%	Tumonggor et al. 2014
Oceania							
	Malayo-Polynesian						
		Austronesian	Samoans	Samoa	12	8%	Karafet et al. 2010

Supplementary Table 16.7. Contemporary Distribution of O1a-M110.

Region	Language Group	Language Family	Population	Location	Sample Size	O1a-M110	Reference
East Asia							
	Chinese						
		Chinese	Pinghua	Pingguo, Guangxi, China	123	22%	Lu et al. 2013
	Formosan						
		Austronesian	Bunun	Taiwan, China	56	61%	Trejaut et al. 2014
		Austronesian	Bunun	Taiwan, China	17	59%	Li et al. 2008
		Austronesian	Paiwan	Taiwan, China	25	28%	Trejaut et al. 2014
		Austronesian	Paiwan	Taiwan, China	22	27%	Li et al. 2008
		Austronesian	Rukai	Taiwan, China	29	24%	Trejaut et al. 2014
		Austronesian	Puyuma	Taiwan, China	23	22%	Trejaut et al. 2014
		Austronesian	Pazeh	Taiwan, China	21	19%	Li et al. 2008
		Austronesian	Rukai	Taiwan, China	11	18%	Li et al. 2008
		Austronesian	Amis	Taiwan, China	39	18%	Trejaut et al. 2014
		Austronesian	Amis	Taiwan, China	28	18%	Li et al. 2008
		Austronesian	Siraya (Pingtung)	Taiwan, China	85	18%	Trejaut et al. 2014
		Austronesian	Siraya (Tainan)	Taiwan, China	30	13%	Trejaut et al. 2014
		Austronesian	Siraya (Hwalien)	Taiwan, China	38	13%	Trejaut et al. 2014
		Austronesian	Pazeh	Taiwan, China	40	13%	Trejaut et al. 2014
		Austronesian	Saisat	Taiwan, China	11	9%	Li et al. 2008
		Austronesian	Pyuma	Taiwan, China	11	9%	Li et al. 2008
		Austronesian	Kategalan	Taiwan, China	30	7%	Trejaut et al. 2014
		Austronesian	Thao	Taiwan, China	16	6%	Trejaut et al. 2014
		Austronesian	Tsou	Taiwan, China	18	6%	Li et al. 2008

Region	Language Group	Language Family	Population	Location	Sample Size	O1a-M110	Reference
Kam-Tai							
	Tai-Kadai	Mulam		Guangxi, China	40	25%	Li et al. 2008
	Tai-Kadai	Lue		North Thailand	13	15%	Kutanan et al. 2019
	Tai-Kadai	Mulam		Guangxi, China	51	8%	Deng et al. 2013
	Tai-Kadai	Black Thai		Northeast Thailand	18	6%	Kutanan et al. 2019
	Tai-Kadai	Laoslan		Northeast Thailand	17	6%	Kutanan et al. 2019
	Tai-Kadai	Central Thai		Central Thailand	19	5%	Kutanan et al. 2019
	Tai-Kadai	Laotian		Laos	20	5%	Kutanan et al. 2019
Mienic							
	Hmong-Mien	luMien		North Thailand	17	6%	Kutanan et al. 2020
Mon-Khmer							
	Austro-Asiatic	Vietnamese		Vietnam	48	10%	Kim et al. 2011
	Austro-Asiatic	Palyu		Southern China	30	10%	Cai et al. 2011
	Austro-Asiatic	Mon		Central Thailand	14	7%	Kutanan et al. 2019
Indian Ocean							
Malayo-Polynesian							
	Austronesian	Antemoro (Antalaotra)		Madagascar	43	16%	Capredon et al. 2013
	Austronesian	Antemoro (Ampanabaka)		Madagascar	46	15%	Capredon et al. 2013
Island Southeast Asia							
Malayo-Polynesian							
	Austronesian	Kurti		Admiralty Islands	18	50%	Kayser et al. 2008
	Austronesian	Seimat-Wuvulu		Admiralty Islands	11	36%	Kayser et al. 2008

Region	Language Group	Language Family	Population	Location	Sample Size	O1a-M110	Reference
		Austronesian	Woodlark Islanders	Papua New Guinea	13	31%	Oven et al. 2014
		Austronesian	Filipinos	Philippines	210	20%	Delfin et al. 2011
		Austronesian	Titan	Admiralty Islands	21	19%	Kayser et al. 2008
		Austronesian	Kateri	West Timor	50	18%	Tumonggor et al. 2014
		Austronesian	Nyindrou	Admiralty Islands	17	18%	Kayser et al. 2008
		Austronesian	Trobriand Islanders	Papua New Guinea	60	17%	Oven et al. 2014
		Austronesian	Nali	Admiralty Islands	19	16%	Kayser et al. 2008
		Austronesian	Makassar	Indonesia	13	15%	Li et al. 2008
		Austronesian	Nias	Nias, Indonesia	60	13%	Karafet et al. 2010
		Austronesian	Kakaniuk	West Timor	47	13%	Tumonggor et al. 2014
		Austronesian	Filipinos	Philippines	146	12%	Trejaut et al. 2014
		Austronesian	Andra-Hus	Admiralty Islands	20	10%	Kayser et al. 2008
		Austronesian	Laran	West Timor	50	10%	Tumonggor et al. 2014
		Austronesian	Fatuketi	West Timor	35	9%	Tumonggor et al. 2014
		Austronesian	Filipinos	Philippines	48	8%	Karafet et al. 2010
		Austronesian	Sulawesi	Sulawesi, Indonesia	54	7%	Karafet et al. 2010
		Austronesian	Misima Islanders	Papua New Guinea	14	7%	Oven et al. 2014
		Austronesian	Ere-Kele	Admiralty Islands	14	7%	Kayser et al. 2008
		Austronesian	Kletek Wefatuk	West Timor	15	7%	Tumonggor et al. 2014
		Austronesian	Torajan	Indonesia	15	7%	Li et al. 2008
		Austronesian	Kletek Suai	West Timor	15	7%	Tumonggor et al. 2014
		Austronesian	Sumbanese	Sumba, Indonesia	350	6%	Karafet et al. 2010
		Austronesian	Lawalu	West Timor	49	6%	Tumonggor et al. 2014
		Austronesian	Raimanawe	West Timor	50	6%	Tumonggor et al. 2014

Region	Language Group	Language Family	Population	Location	Sample Size	O1a-M110	Reference
		Austronesian	Bornean	Borneo, Indonesia	86	6%	Karafet et al. 2010
	Trans-New Guinea						
		Trans-New Guinea	Tialai	West Timor	24	8%	Tumonggor et al. 2014
	Yele-West New Britain						
		Yele-West New Britain	Rossel Islanders	Papua New Guinea	80	29%	Oven et al. 2014
Oceania							
	Malayo-Polynesian						
		Austronesian	Kolombangara	Solomon Islands	17	24%	Delfin et al. 2012
		Austronesian	Gela	Solomon Islands	47	13%	Delfin et al. 2012
		Austronesian	Guadalcanal	Solomon Islands	53	9%	Delfin et al. 2012
		Austronesian	Makira	Solomon Islands	39	5%	Delfin et al. 2012

Supplementary Table 16.8. Contemporary Distribution of O2a-P164.

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-P164	Reference
Central Asia							
	Turkic						
		Turkic	Karakalpak	Uzbekistan-Karakalpakstan	100	7%	Zhabagin et al. 2017
East Asia							
	Central Tibeto-Burman						
		Tibeto-Burman	Deng	Tibet	90	94%	Kang et al. 2012
	Chinese						
		Chinese	Han	Harbin, China	35	37%	Xue et al. 2006
		Chinese	Taiwanese Han	Taiwan, China	352	34%	Trejaut et al. 2014
		Chinese	Han	Chendu, China	34	29%	Xue et al. 2006
		Chinese	Hakka	Hunan Province, Central China	113	29%	Xia et al. 2019
		Chinese	Han	China	165	28%	Karafet et al. 2010
		Chinese	Xiāng	Hunan Province, Central China	148	26%	Xia et al. 2019
		Chinese	Huí	Hunan Province, Central China	34	24%	Xia et al. 2019
		Chinese	Han	South China	158	23%	Ning et al. 2016
		Chinese	SW Mandarin	Hunan Province, Central China	99	23%	Xia et al. 2019
		Chinese	Wǎxiāng	Hunan Province, Central China	39	23%	Xia et al. 2019
		Chinese	Pinghua	Guangxi, China	101	21%	Gan et al. 2008

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-P164	Reference
		Chinese	Pinghua	Tiandong, Guangxi, China	20	20%	Lu et al. 2013
		Chinese	Gàn	Hunan Province, Central China	103	19%	Xia et al. 2019
		Chinese	Han	Guangxi, China	82	18%	Zhao et al. 2010
		Chinese	Han	North China	225	18%	Ning et al. 2016
		Chinese	Tǔhuà	Hunan Province, Central China	17	18%	Xia et al. 2019
		Chinese	Han	Northeast China	80	18%	Ning et al. 2016
		Chinese	Han	Lanzhou, China	30	17%	Xue et al. 2006
		Chinese	Han	East China	450	15%	Ning et al. 2016
		Chinese	Han	Meixian, China	35	14%	Xue et al. 2006
		Chinese	Han	Northwest China	47	11%	Ning et al. 2016
		Chinese	Pinghua	Nanning, Guangxi, China	38	11%	Lu et al. 2013
		Chinese	Han	Yili, China	32	9%	Xue et al. 2006
		Chinese	Han	China	93	9%	Ning et al. 2016
		Chinese	Han	Southwest China	36	8%	Ning et al. 2016
		Chinese	Bái	Hunan Province, Central China	14	7%	Xia et al. 2019
		Chinese	Hui	Central China	35	6%	Xue et al. 2006
	Formosan	Austronesian	Yunlin	Taiwan, China	21	43%	Trejaut et al. 2014
		Austronesian	Papura	Taiwan, China	18	39%	Trejaut et al. 2014
		Austronesian	Siraya (Kaohsiung)	Taiwan, China	40	38%	Trejaut et al. 2014
		Austronesian	Amis	Taiwan, China	39	36%	Trejaut et al. 2014

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-P164	Reference
		Austronesian	Siraya (Tainan)	Taiwan, China	30	20%	Trejaut et al. 2014
		Austronesian	Siraya (Hwalien)	Taiwan, China	38	18%	Trejaut et al. 2014
		Austronesian	Siraya (Tainen Coast)	Taiwan, China	38	18%	Trejaut et al. 2014
		Austronesian	Pazeh	Taiwan, China	40	18%	Trejaut et al. 2014
		Austronesian	Kategalan	Taiwan, China	30	17%	Trejaut et al. 2014
		Austronesian	Siraya Makato	Taiwan, China	37	14%	Li et al. 2008
		Austronesian	Puyuma	Taiwan, China	23	13%	Trejaut et al. 2014
		Austronesian	Siraya (Pingtung)	Taiwan, China	85	9%	Trejaut et al. 2014
		Austronesian	Paiwan	Taiwan, China	22	9%	Li et al. 2008
		Austronesian	Taroko	Taiwan, China	20	5%	Trejaut et al. 2014
	Hmongic						
		Hmong-Mien	Pa Then	Southern China	31	19%	Cai et al. 2011
		Hmong-Mien	Miao (Hunan)	Southern China	100	16%	Cai et al. 2011
		Hmong-Mien	Hmong (Black Hmong)	North Thailand	19	16%	Kutanan et al. 2020
		Hmong-Mien	Miao	China	58	10%	Karafet et al. 2010
		Hmong-Mien	Hmong (White Hmong)	North Thailand	23	9%	Kutanan et al. 2020
		Hmong-Mien	Hmong (Daw)	Southern China	51	8%	Cai et al. 2011
		Hmong-Mien	Miao (Yunnan)	Southern China	49	6%	Cai et al. 2011
		Hmong-Mien	Hmong	Hunan Province, Central China	95	5%	Xia et al. 2019
	Ho Nte						
		Hmong-Mien	She	Southeastern China	34	24%	Xue et al. 2006
		Hmong-Mien	She	China	51	6%	Karafet et al. 2010

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-P164	Reference
Ho The							
		Hmong-Mien	She (Northern)	Southern China	56	25%	Cai et al. 2011
Japonic							
		Japonic	Japanese	Japan	2390	9%	Sato et al. 2014
		Japonic	Japanese	Japan	263	8%	Naitoh et al. 2013
Kam-Tai							
		Tai-Kadai	Dai	Yunnan Province, SW China	251	50%	Xu et al. 2019
		Tai-Kadai	Khon Mueang	North Thailand	13	46%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Western Thailand	18	40%	Kutanan et al. 2019
		Tai-Kadai	Shan	North Thailand	20	40%	Kutanan et al. 2020
		Tai-Kadai	Shan	North Thailand	18	39%	Kutanan et al. 2019
		Tai-Kadai	Lingao	Hainan, China	30	37%	Li et al. 2008
		Tai-Kadai	Khon Mueang	North Thailand	17	35%	Kutanan et al. 2019
		Tai-Kadai	Shan	Northern Thailand	20	35%	Brunelli et al. 2017
		Tai-Kadai	Khon Mueang	North Thailand	13	31%	Kutanan et al. 2019
		Tai-Kadai	Phuan	North Thailand	17	30%	Kutanan et al. 2019
		Tai-Kadai	Yuan	North Thailand	14	29%	Kutanan et al. 2019
		Tai-Kadai	Laotian	Laos	20	25%	Kutanan et al. 2019
		Tai-Kadai	Khon Muang	Northern Thailand	191	24%	Brunelli et al. 2017
		Tai-Kadai	Khon Mueang	North Thailand	17	24%	Kutanan et al. 2019
		Tai-Kadai	Kalueng	Northeast Thailand	17	24%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	18	22%	Kutanan et al. 2019
		Tai-Kadai	Yuan	Northern Thailand	85	21%	Brunelli et al. 2017
		Tai-Kadai	Kuen	Northern Thailand	24	21%	Brunelli et al. 2017

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-P164	Reference
		Tai-Kadai	Phutai	Northeast Thailand	24	21%	Kutanan et al. 2020
		Tai-Kadai	Zhuang	Guangxi, China	39	21%	
		Tai-Kadai	Zhuàng	Hunan Province, Central China	5	20%	Xia et al. 2019
		Tai-Kadai	Sui (Shui)	Guangxi, China	50	20%	Li et al. 2008
		Tai-Kadai	Chadong	Guangxi, China	21	19%	Deng et al. 2013
		Tai-Kadai	Lao Isan	Northeast Thailand	16	19%	Kutanan et al. 2020
		Tai-Kadai	Lue	North Thailand	17	18%	Kutanan et al. 2019
		Tai-Kadai	Lue	Northern Thailand	91	18%	Brunelli et al. 2017
		Tai-Kadai	Nyaw	Northeast Thailand	18	17%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	18	17%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	19	16%	Kutanan et al. 2019
		Tai-Kadai	Lue	North Thailand	13	15%	Kutanan et al. 2019
		Tai-Kadai	Tay	Vietnam	47	15%	Macholdt et al. 2020
		Tai-Kadai	Seak	Northeast Thailand	7	14%	Kutanan et al. 2019
		Tai-Kadai	Dong	Guangxi, China	38	13%	Li et al. 2008
		Tai-Kadai	Cao Miao	Guangxi, China	33	12%	Li et al. 2008
		Tai-Kadai	Lao	Laos	25	12%	He et al. 2012
		Tai-Kadai	Khuen	North Thailand	17	12%	Kutanan et al. 2019
		Tai-Kadai	Thai	Northern Thailand	17	12%	He et al. 2012
		Tai-Kadai	Yong	Northern Thailand	26	12%	Brunelli et al. 2017
		Tai-Kadai	Bouyei (Buyi)	Southern China	35	11%	Xue et al. 2006
		Tai-Kadai	Zhuang	Guangxi, China	63	11%	Zhao et al. 2010
		Tai-Kadai	Central Thai	North Thailand	18	11%	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	9	11%	Kutanan et al. 2019

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-P164	Reference
		Tai-Kadai	Black Thai	Northeast Thailand	18	11%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	19	11%	Kutanan et al. 2019
		Tai-Kadai	Laotian	Laos	20	10%	Kutanan et al. 2019
		Tai-Kadai	Zhuang	Guangxi, China	21	10%	Gan et al. 2008
		Tai-Kadai	Thai	Vietnam	24	8%	Macholdt et al. 2020
		Tai-Kadai	Mulam	Guangxi, China	51	8%	Deng et al. 2013
		Tai-Kadai	Then	Guizhou, China	30	7%	Li et al. 2008
		Tai-Kadai	Phuan	Central Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Black Thai	Central Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	17	6%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	19	5%	Kutanan et al. 2019
		Tai-Kadai	Mulam	Guangxi, China	40	5%	Li et al. 2008
	Karenic						
		Tibeto-Burman	Karen (Skaw Karen)	North Thailand	15	67%	Kutanan et al. 2020
		Tibeto-Burman	Karen (Skaw)	North Thailand	8	38%	Kutanan et al. 2019
		Tibeto-Burman	Karen (Paduang)	North Thailand	11	36%	Kutanan et al. 2019
		Tibeto-Burman	Karen (Pwo)	North Thailand	11	27%	Kutanan et al. 2019
		Tibeto-Burman	Karen (Skaw)	North Thailand	12	25%	Kutanan et al. 2019
	Koreanic						
		Koreanic	Koreans	Korea	706	24%	Park et al. 2012
		Koreanic	Koreans	Korea	706	14%	Kwon et al. 2015
	Kra						

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-P164	Reference
		Tai-Kadai	Lachi	Yunnan, China	30	30%	Li et al. 2008
		Tai-Kadai	Red Gelao	Guizhou, China	31	16%	Li et al. 2008
		Tai-Kadai	Yerong	Guangxi, China	16	13%	Li et al. 2008
		Tai-Kadai	Qau	Guizhou, China	13	8%	Li et al. 2008
		Tai-Kadai	White Gelao	Yunnan, China	14	7%	Li et al. 2008
		Tai-Kadai	Gelong	Hainan, China	79	5%	Li et al. 2010
	Malayo-Polynesian						
		Austronesian	Tsat	Hainan, China	31	10%	Li et al. 2008
		Austronesian	Malaysians	Malaysia	32	9%	Karafet et al. 2010
	Mienic						
		Hmong-Mien	Kimmun (Blue)	Southern China	28	71%	Cai et al. 2011
		Hmong-Mien	Kimmun (Mountain)	Southern China	32	56%	Cai et al. 2011
		Hmong-Mien	Mien (Straggler)	Southern China	20	45%	Cai et al. 2011
		Hmong-Mien	Mien (Northern)	Southern China	33	30%	Cai et al. 2011
		Hmong-Mien	Mien (Western)	Southern China	47	28%	Cai et al. 2011
		Hmong-Mien	IuMien	North Thailand	10	20%	Kutanan et al. 2020
		Hmong-Mien	Yao (Liannan)	Southern China	35	20%	Xue et al. 2006
		Hmong-Mien	Kimmun (Lowland)	Southern China	41	20%	Cai et al. 2011
		Hmong-Mien	Mien	Hunan Province, Central China	33	18%	Xia et al. 2019
		Hmong-Mien	Zaomin	Southern China	37	16%	Cai et al. 2011
		Hmong-Mien	Yao (Lowland)	Southern China	31	16%	Cai et al. 2011
		Hmong-Mien	Mien (Native)	Southern China	41	12%	Cai et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-P164	Reference
		Hmong-Mien	IuMien	North Thailand	17	12%	Kutanan et al. 2020
		Hmong-Mien	Pahng	Hunan Province, Central China	21	10%	Xia et al. 2019
		Hmong-Mien	Mien (Southern)	Southern China	31	6%	Cai et al. 2011
		Hmong-Mien	Yao	China	60	5%	Karafet et al. 2010
	Mongolic						
		Mongolic	Mongols	Northwest China	50	16%	Shou et al. 2010
		Mongolic	Mongols	Mongolia	160	10%	Di Cristofaro et al. 2013
		Mongolic	Daur	Northeastern China	39	8%	Xue et al. 2006
	Mon-Khmer						
		Austro-Asiatic	Paluang	North Thailand	18	50%	Kutanan et al. 2019
		Austro-Asiatic	Bit	Southern China	28	43%	Cai et al. 2011
		Austro-Asiatic	Ava	Southern China	29	31%	Cai et al. 2011
		Austro-Asiatic	Mon	Central Thailand	13	31%	Kutanan et al. 2019
		Austro-Asiatic	Nyahkur	Northeast Thailand	21	29%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Northern Thailand	18	22%	Brunelli et al. 2017
		Austro-Asiatic	Mon	Central Thailand	14	21%	Kutanan et al. 2019
		Austro-Asiatic	Lawa (Western)	North Thailand	15	20%	Kutanan et al. 2019
		Austro-Asiatic	Blang	Laos	52	17%	Cai et al. 2011
		Austro-Asiatic	Mon	Western Thailand	18	17%	Kutanan et al. 2019
		Austro-Asiatic	Blang	North Thailand	18	17%	Kutanan et al. 2019
		Austro-Asiatic	Bolyu	Guangxi, China	30	17%	Li et al. 2008
		Austro-Asiatic	Palyu	Southern China	30	17%	Cai et al. 2011
		Austro-Asiatic	Mal	Laos	50	16%	Cai et al. 2011
		Austro-Asiatic	Kataang	Laos	38	16%	Cai et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-P164	Reference
		Austro-Asiatic	Vietnamese	Vietnam	70	16%	Karafet et al. 2010
		Austro-Asiatic	Bugan	Southern China	32	16%	Cai et al. 2011
		Austro-Asiatic	Mon	Central Thailand	14	14%	Kutanan et al. 2019
		Austro-Asiatic	Khmu	Laos	51	14%	Cai et al. 2011
		Austro-Asiatic	Soa	Northeast Thailand	17	12%	Kutanan et al. 2019
		Austro-Asiatic	Lawa	Northern Thailand	50	10%	Brunelli et al. 2017
		Austro-Asiatic	Vietnamese	Vietnam	76	9%	He et al. 2012
		Austro-Asiatic	Mon	North Thailand	12	8%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Western Thailand	15	7%	Kutanan et al. 2019
		Austro-Asiatic	Xinhmul	Laos	29	7%	Cai et al. 2011
		Austro-Asiatic	Khmu	Northeast Thailand	18	6%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Northeast Thailand	19	5%	Kutanan et al. 2019
	Ngwi-Burmese						
		Tibeto-Burman	Hanhi	Vietnam	33	36%	Macholdt et al. 2020
		Tibeto-Burman	Bamar	Myanmar	59	36%	Peng et al. 2014
		Tibeto-Burman	Yi (Yizu)	Yunnan Province, SW China	283	25%	Guo et al. 2019
		Tibeto-Burman	Mussur/Lahu (Black Lahu)	North Thailand	17	18%	Kutanan et al. 2020
		Tibeto-Burman	Hani	Southern China	34	15%	Xue et al. 2006
		Tibeto-Burman	Lisu	North Thailand	15	13%	Kutanan et al. 2020
		Tibeto-Burman	Lahu	Vietnam	31	13%	Macholdt et al. 2020
		Tibeto-Burman	Mussur/Lahu (Red Lahu)	North Thailand	16	13%	Kutanan et al. 2020
		Tibeto-Burman	Phula	Vietnam	35	9%	Macholdt et al. 2020

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-P164	Reference
	Northeastern Tibeto-Burman						
		Tibeto-Burman	Northern Tǔjiā	Hunan Province, Central China	24	38%	Xia et al. 2019
		Tibeto-Burman	Horpa (Danba)	Sichuan, China	18	28%	Wang et al. 2014
		Tibeto-Burman	Mandarin Tǔjiā	Hunan Province, Central China	53	26%	Xia et al. 2019
		Tibeto-Burman	Tujia	China	49	24%	Karafet et al. 2010
		Tibeto-Burman	Bai	Yunnan Province, SW China	278	24%	Guo et al. 2019
		Tibeto-Burman	Qiang	Central China	33	21%	Xue et al. 2006
		Tibeto-Burman	Horpa (Daofu)	Sichuan, China	16	13%	Wang et al. 2014
		Tibeto-Burman	Southern Tǔjiā	Hunan Province, Central China	12	8%	Xia et al. 2019
	Sal						
		Tibeto-Burman	Jingpo	Yunnan Province, SW China	249	63%	Xu et al. 2019
	Tai-Kadai						
		Tai-Kadai	Lachi	Vietnam	36	22%	Macholdt et al. 2020
	Tungusic						
		Tungusic	Manchu	China	16	50%	Ning et al. 2016
		Tungusic	Nanai (Hezhe)	Northeastern China	45	20%	Xue et al. 2006
		Tungusic	Manchu	Northeastern China	35	20%	Xue et al. 2006
		Tungusic	Evenks	Northern China	26	19%	Xue et al. 2006
		Tungusic	Xibe	Northwestern China	41	17%	Xue et al. 2006
		Tungusic	Xibe	Northwest China	32	16%	Shou et al. 2010
		Tungusic	Oroquen	Northern China	31	6%	Xue et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-P164	Reference
Turkic							
		Turkic	Uyghurs	Northwestern China	39	10%	Xue et al. 2006
		Turkic	Kazakh	Northwest China	41	7%	Shou et al. 2010
		Turkic	Uyghur	Hunan Province, Central China	15	7%	Xia et al. 2019
		Turkic	Uyghurs	Northwestern China	31	6%	Xue et al. 2006
		Turkic	Tatars	Northwest China	33	6%	Shou et al. 2010
Western Tibeto-Burman							
		Tibeto-Burman	Luoba	Tibet	130	33%	Kang et al. 2012
		Tibeto-Burman	Tibetans	Tibet	2354	32%	Qi et al. 2013
		Tibeto-Burman	Khams (Yajiang)	Sichuan, China	47	26%	Wang et al. 2014
		Tibeto-Burman	Khams (Xinlong)	Sichuan, China	46	17%	Wang et al. 2014
Island Southeast Asia							
Malayo-Polynesian							
		Austronesian	Filipinos	Philippines	146	21%	Trejaut et al. 2014
		Austronesian	Bugis	Indonesia	15	7%	Li et al. 2008
		Austronesian	Fatuketi	West Timor	35	6%	Tumonggor et al. 2014
Northern Eurasia							
Turkic							
		Turkic	Altaiian Kazakhs	Altai Republic, Russia	119	26%	Dulik et al. 2011
Oceania							
Malayo-Polynesian							

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-P164	Reference
		Austronesian	Tongans	Polynesia	52	54%	Mirabal et al. 2012
		Austronesian	Tutilla	Samoa Archipelago	24	33%	Mirabal et al. 2012
		Austronesian	West Samoa	Samoa Archipelago	61	26%	Mirabal et al. 2012
		Austronesian	Tahitians	Tahiti	24	13%	Karafet et al. 2010
		Austronesian	Leeward Society Islanders	Leeward Society Islands	72	11%	Hudjashov et al. 2018
South Asia							
	Angami-Pochuri						
		Tibeto-Burman	Poumai Naga	Manipur	50	100%	Tamang et al. 2018
		Tibeto-Burman	Chakhesang	Nagaland	55	93%	Tamang et al. 2018
		Tibeto-Burman	Sema Naga	Nagaland	54	7%	Tamang et al. 2018
	Central Tibeto-Burman						
		Tibeto-Burman	Nyishi	Arunachal Pradesh	48	71%	Tamang et al. 2018
	Central-Naga						
		Tibeto-Burman	Ao Naga	Nagaland	67	60%	Tamang et al. 2018
	Indo-Aryan						
		Indo-European	Tharu	Chitwan, Nepal	57	54%	Fornarino et al. 2009
		Indo-European	Rajbanshi	Eastern India	51	43%	Debnath et al. 2011
		Indo-European	Tharu	Butwal, Nepal	10	40%	Chaubey et al. 2014
		Indo-European	Tharu	Chitwan, Nepal	77	29%	Fornarino et al. 2009
		Indo-European	Tharu	Haldwani, India	22	27%	Chaubey et al. 2014
		Indo-European	Tharu	Tulsipur, Nepal	21	24%	Chaubey et al. 2014
		Indo-European	Tharu	Morang, Nepal	37	19%	Fornarino et al. 2009
		Indo-European	Tharu	Mahrajganj, India	42	17%	Chaubey et al. 2014
		Indo-European	Tharu	Gorakhpur, India	38	13%	Chaubey et al. 2014

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-P164	Reference
		Indo-European	Tharu	Nainital, India	23	13%	Chaubey et al. 2014
		Indo-European	Tharu	Deoria, India	47	13%	Chaubey et al. 2014
		Indo-European	Bengali	Eastern India	54	7%	Debnath et al. 2011
		Indo-European	Tharu	Allahabad, India	37	5%	Chaubey et al. 2014
	Isolate						
		Isolate	Burusho	North Pakistan	20	5%	Sengupta et al. 2006
		Isolate	Buruscho	Pakistan	20	5%	Di Cristofaro et al. 2013
	Mon-Khmer						
		Austro-Asiatic	Khasi	Meghalaya	40	45%	Tamang et al. 2018
	Ngwi-Burmese						
		Tibeto-Burman	Marma	Bangladesh	60	50%	Gazi et al. 2013
	Sal						
		Tibeto-Burman	Tripuri	Northeast India	21	81%	Sengupta et al. 2006
		Tibeto-Burman	Jamatia	Northeast India	30	73%	Sengupta et al. 2006
		Tibeto-Burman	Rabha	Eastern India	26	73%	Debnath et al. 2011
		Tibeto-Burman	Mizo	Northeast India	27	48%	Sengupta et al. 2006
		Tibeto-Burman	Mech	Eastern India	19	47%	Debnath et al. 2011
		Tibeto-Burman	Dhimal	Eastern India	36	42%	Debnath et al. 2011
		Tibeto-Burman	Tripuri	Bangladesh	88	35%	Gazi et al. 2013
		Tibeto-Burman	Mizo	Mizoram	46	26%	Tamang et al. 2018
	Western Tibeto-Burman						
		Tibeto-Burman	Ban Ravat	Uttarakhand	38	92%	Tamang et al. 2018
		Tibeto-Burman	Tamang	Nepal	45	87%	Gayden et al. 2007
		Tibeto-Burman	Subba	West Bengal	44	80%	Tamang et al. 2018

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-P164	Reference
		Tibeto-Burman	Sherpa	West Bengal	54	28%	Tamang et al. 2018
		Tibeto-Burman	Newar	Nepal	66	21%	Gayden et al. 2007
		Tibeto-Burman	Changpa	Jammu and Kashmir, India	50	10%	Tamang et al. 2018
		Tibeto-Burman	Lachungpa	Eastern India	11	9%	Debnath et al. 2011
		Tibeto-Burman	Bhotia	Uttarakhand	55	7%	Tamang et al. 2018

Supplementary Table 16.9. Contemporary Distribution of O1b-M95.

Region	Language Group	Lang Family	Population	Location	Sample Size	O1b-M95	Reference
East Asia							
	Chinese						
		Chinese	Han	Guangxi, China	82	55%	Zhao et al. 2010
		Chinese	Han (Na Po)	Guangxi, China	82	55%	Arunkumar et al. 2015
		Chinese	Pinghua	Nanning, Guangxi, China	38	50%	Lu et al. 2013
		Chinese	Pinghua-Han	Guangxi, China	101	43%	Arunkumar et al. 2015
		Chinese	Pinghua	Guangxi, China	101	43%	Gan et al. 2008
		Chinese	Pinghua	Tiandong, Guangxi, China	20	40%	Lu et al. 2013
		Chinese	Bái	Hunan Province, Central China	14	29%	Xia et al. 2019
		Chinese	Pinghua	Pingguo, Guangxi, China	123	23%	Lu et al. 2013
		Chinese	Tǔhuà	Hunan Province, Central China	17	18%	Xia et al. 2019
		Chinese	Han	Chendu, China	34	15%	Xue et al. 2006
		Chinese	Han	China	165	12%	Karafet et al. 2010
		Chinese	Hakka	Hunan Province, Central China	113	6%	Xia et al. 2019
		Chinese	SW Mandarin	Hunan Province, Central China	99	6%	Xia et al. 2019
		Chinese	Taiwanese Han	Taiwan, China	352	6%	Trejaut et al. 2014
	Formosan						
		Austronesian	Bunun	Taiwan, China	56	38%	Trejaut et al. 2014
		Austronesian	Saisat	Taiwan, China	11	18%	Li et al. 2008

Region	Language Group	Lang Family	Population	Location	Sample Size	O1b-M95	Reference
		Austronesian	Bunun	Taiwan, China	17	18%	Li et al. 2008
		Austronesian	Pazeh	Taiwan, China	21	14%	Li et al. 2008
		Austronesian	Papura	Taiwan, China	18	11%	Trejaut et al. 2014
		Austronesian	Siraya (Tainen Coast)	Taiwan, China	38	8%	Trejaut et al. 2014
		Austronesian	Amis	Taiwan, China	28	7%	Li et al. 2008
		Austronesian	Siraya Makato	Taiwan, China	37	5%	Li et al. 2008
	Hlai						
		Tai-Kadai	Li (Hlai)	Southern China	34	62%	Xue et al. 2006
		Tai-Kadai	Hlai	Hainan, China	34	29%	Li et al. 2008
		Tai-Kadai	Jiamao	Hainan, China	27	22%	Li et al. 2008
	Hmongic						
		Hmong-Mien	Miao (Yunnan)	Southern China	49	31%	Cai et al. 2011
		Hmong-Mien	Hmong	Hunan Province, Central China	95	31%	Xia et al. 2019
		Hmong-Mien	Bunu (Southern)	Southern China	20	30%	Cai et al. 2011
		Hmong-Mien	Miao (Guizhou)	Southern China	49	18%	Cai et al. 2011
		Hmong-Mien	Hmong	Vietnam	41	17%	Macholdt et al. 2020
		Hmong-Mien	Miao (Hunan)	Southern China	100	14%	Cai et al. 2011
		Hmong-Mien	Pathen	Vietnam	36	14%	Macholdt et al. 2020
		Hmong-Mien	Pa Then	Southern China	31	13%	Cai et al. 2011
		Hmong-Mien	Hmong (Daw)	Southern China	51	12%	Cai et al. 2011
		Hmong-Mien	Hmong	Laos	17	12%	Arunkumar et al. 2015
		Hmong-Mien	Hmong	Laos	27	11%	Arunkumar et al. 2015
		Hmong-Mien	Miao	Guangxi, China	58	10%	Arunkumar et al. 2015
		Hmong-Mien	Miao	China	58	10%	Karafet et al. 2010

Region	Language Group	Lang Family	Population	Location	Sample Size	O1b-M95	Reference
		Hmong-Mien	Hmong (White Hmong)	North Thailand	13	8%	Kutanan et al. 2020
		Hmong-Mien	Hmong (Black Hmong)	North Thailand	19	5%	Kutanan et al. 2020
	Ho Nte	Hmong-Mien	She	China	51	35%	Karafet et al. 2010
		Hmong-Mien	She	Guangxi, China	51	35%	Arunkumar et al. 2015
		Hmong-Mien	She	Southeastern China	34	9%	Xue et al. 2006
	Kam-Tai						
		Tai-Kadai	Black Thai	Central Thailand	18	95%	Kutanan et al. 2019
		Tai-Kadai	Tai Mene	Laos	24	83%	Arunkumar et al. 2015
		Tai-Kadai	Tai Deang	Laos	44	82%	Arunkumar et al. 2015
		Tai-Kadai	Zhuàng	Hunan Province, Central China	5	80%	Xia et al. 2019
		Tai-Kadai	Colao	Vietnam	34	76%	Macholdt et al. 2020
		Tai-Kadai	Lao Isan	Northeast Thailand	16	75%	Kutanan et al. 2020
		Tai-Kadai	Laolsan	Northeast Thailand	18	73%	Kutanan et al. 2019
		Tai-Kadai	Zhuang	Guangxi, China	22	73%	Li et al. 2008
		Tai-Kadai	Saek	Laos	30	67%	Arunkumar et al. 2015
		Tai-Kadai	Thai	Vietnam	24	66%	Macholdt et al. 2020
		Tai-Kadai	Laolsan	Northeast Thailand	9	66%	Kutanan et al. 2019
		Tai-Kadai	Tai Dam	Laos	50	66%	Arunkumar et al. 2015
		Tai-Kadai	Black Thai	Northeast Thailand	18	62%	Kutanan et al. 2019

Region	Language Group	Lang Family	Population	Location	Sample Size	O1b-M95	Reference
		Tai-Kadai	Phutai	Northeast Thailand	18	62%	Kutanan et al. 2019
		Tai-Kadai	Phuan	Laos	22	59%	Arunkumar et al. 2015
		Tai-Kadai	Kalueng	Northeast Thailand	17	59%	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	17	59%	Kutanan et al. 2019
		Tai-Kadai	Phuan	North Thailand	17	59%	Kutanan et al. 2019
		Tai-Kadai	Tay	Vietnam	47	57%	Macholdt et al. 2020
		Tai-Kadai	Yuan	Central Thailand	12	57%	Kutanan et al. 2019
		Tai-Kadai	Maonan	Guangxi, China	32	56%	Li et al. 2008
		Tai-Kadai	Laotian	Laos	20	55%	Kutanan et al. 2019
		Tai-Kadai	Bouyei (Buyi)	Southern China	35	54%	Xue et al. 2006
		Tai-Kadai	Lao	Laos	59	54%	Arunkumar et al. 2015
		Tai-Kadai	Phutai	Northeast Thailand	24	54%	Kutanan et al. 2020
		Tai-Kadai	Phu Tai	Laos	24	54%	Arunkumar et al. 2015
		Tai-Kadai	Nung	Vietnam	37	54%	Macholdt et al. 2020
		Tai-Kadai	Rien	Laos	50	54%	Arunkumar et al. 2015
		Tai-Kadai	Khuen	North Thailand	17	54%	Kutanan et al. 2019
		Tai-Kadai	Lue	North Thailand	13	53%	Kutanan et al. 2019
		Tai-Kadai	Lao	Stung Treng, Cambodia	27	52%	Zhang et al. 2015
		Tai-Kadai	Lao	Northern Cambodia	27	52%	Zhang et al. 2014
		Tai-Kadai	Laotian	Laos	20	50%	Kutanan et al. 2019
		Tai-Kadai	Then	Guizhou, China	30	50%	Li et al. 2008

Region	Language Group	Lang Family	Population	Location	Sample Size	O1b-M95	Reference
		Tai-Kadai	Lue	North Thailand	17	48%	Kutanan et al. 2019
		Tai-Kadai	Thai	Thailand	50	48%	Hong et al. 2006
		Tai-Kadai	Khon Mueang	North Thailand	17	48%	Kutanan et al. 2019
		Tai-Kadai	Khon Mueang	North Thailand	13	47%	Kutanan et al. 2019
		Tai-Kadai	Nyaw	Northeast Thailand	18	46%	Kutanan et al. 2019
		Tai-Kadai	Shan	North Thailand	18	45%	Kutanan et al. 2019
		Tai-Kadai	Sui (Shui)	Guangxi, China	50	44%	Li et al. 2008
		Tai-Kadai	Seak	Northeast Thailand	7	43%	Kutanan et al. 2019
		Tai-Kadai	Zhuang	Guangxi, China	21	43%	Gan et al. 2008
		Tai-Kadai	Zhuang	Guangxi, China	21	43%	Arunkumar et al. 2015
		Tai-Kadai	Khon Mueang	North Thailand	17	42%	Kutanan et al. 2019
		Tai-Kadai	Yuan	North Thailand	14	42%	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	18	40%	Kutanan et al. 2019
		Tai-Kadai	Dong	Guangxi, China	38	39%	Li et al. 2008
		Tai-Kadai	Yong	Northern Thailand	26	38%	Brunelli et al. 2017
		Tai-Kadai	Kam	Hunan Province, Central China	71	38%	Xia et al. 2019
		Tai-Kadai	Lao	Laos	25	36%	He et al. 2012
		Tai-Kadai	Phuan	Central Thailand	18	34%	Kutanan et al. 2019
		Tai-Kadai	Kang	Laos	12	33%	Arunkumar et al. 2015
		Tai-Kadai	Central Thai	Central Thailand	18	33%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	19	31%	Kutanan et al. 2019
		Tai-Kadai	Khon Mueang	North Thailand	13	31%	Kutanan et al. 2019

Region	Language Group	Lang Family	Population	Location	Sample Size	O1b-M95	Reference
		Tai-Kadai	Lue	Northern Thailand	91	31%	Brunelli et al. 2017
		Tai-Kadai	Mulam	Guangxi, China	40	30%	Li et al. 2008
		Tai-Kadai	Dai	Yunnan Province, SW China	251	30%	Xu et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	18	28%	Kutanan et al. 2019
		Tai-Kadai	Mulam	Guangxi, China	51	27%	Deng et al. 2013
		Tai-Kadai	Kam	Guangxi, China	27	26%	Arunkumar et al. 2015
		Tai-Kadai	Central Thai	Central Thailand	19	25%	Kutanan et al. 2019
		Tai-Kadai	Kuen	Northern Thailand	24	25%	Brunelli et al. 2017
		Tai-Kadai	Central Thai	Central Thailand	19	25%	Kutanan et al. 2019
		Tai-Kadai	Minz-Zhuang	Guangxi, China	63	24%	Arunkumar et al. 2015
		Tai-Kadai	Thai	Northern Thailand	17	24%	He et al. 2012
		Tai-Kadai	Yuan	Northern Thailand	85	22%	Brunelli et al. 2017
		Tai-Kadai	Zhuang	Guangxi, China	63	22%	Zhao et al. 2010
		Tai-Kadai	Thai	Yala, Thailand	99	22%	Arunkumar et al. 2015
		Tai-Kadai	Thai	Central Thailand	501	22%	Arunkumar et al. 2015
		Tai-Kadai	Shan	North Thailand	20	20%	Kutanan et al. 2020
		Tai-Kadai	Man-Caolan	Guangxi, China	30	20%	Li et al. 2008
		Tai-Kadai	Khon Muang	Northern Thailand	191	20%	Brunelli et al. 2017
		Tai-Kadai	Chadong	Guangxi, China	21	19%	Deng et al. 2013
		Tai-Kadai	Central Thai	North Thailand	18	18%	Kutanan et al. 2019
		Tai-Kadai	Biao	Guangdong, China	34	18%	Li et al. 2008

Region	Language Group	Lang Family	Population	Location	Sample Size	O1b-M95	Reference
		Tai-Kadai	Shan	Northern Thailand	20	15%	Brunelli et al. 2017
		Tai-Kadai	Lingao	Hainan, China	30	13%	Li et al. 2008
		Tai-Kadai	Zhuang	Guangxi, China	39	13%	
		Tai-Kadai	Central Thai	Western Thailand	18	11%	Kutanan et al. 2019
		Tai-Kadai	Mulam	Guangxi, China	11	9%	Arunkumar et al. 2015
		Tai-Kadai	Laka	Guangxi, China	23	9%	Arunkumar et al. 2015
	Karenic						
		Tibeto-Burman	Karen (Pwo)	North Thailand	11	45%	Kutanan et al. 2019
		Tibeto-Burman	Karen (Paduang)	North Thailand	11	36%	Kutanan et al. 2019
		Tibeto-Burman	Karen (Skaw)	North Thailand	8	26%	Kutanan et al. 2019
		Tibeto-Burman	Karen (Skaw)	North Thailand	12	24%	Kutanan et al. 2019
	Kra						
		Tai-Kadai	Yerong	Guangxi, China	16	69%	Li et al. 2008
		Tai-Kadai	Mollao	Guizhou, China	30	63%	Li et al. 2008
		Tai-Kadai	Laqua	Yunnan, China	25	60%	Li et al. 2008
		Tai-Kadai	White Gelao	Yunnan, China	14	43%	Li et al. 2008
		Tai-Kadai	Red Gelao	Guizhou, China	31	16%	Li et al. 2008
		Tai-Kadai	Qau	Guizhou, China	13	15%	Li et al. 2008
		Tai-Kadai	Lachi	Yunnan, China	30	10%	Li et al. 2008
	Malayo-Polynesian						
		Austronesian	Mang	Vietnam	37	97%	Macholdt et al. 2020
		Austronesian	Jarai	Ratanakri , Cambodia	45	76%	Zhang et al. 2015
		Austronesian	Jarai	Northern Cambodia	45	76%	Zhang et al. 2014

Region	Language Group	Lang Family	Population	Location	Sample Size	O1b-M95	Reference
		Austronesian	Ede	Vietnam	24	74%	Macholdt et al. 2020
		Austronesian	Giarai	Vietnam	27	67%	Macholdt et al. 2020
		Austronesian	Cham	Vietnam	59	39%	He et al. 2012
		Austronesian	Malaysians	Malaysia	32	34%	Karafet et al. 2010
		Austronesian	Indonesians	Indonesia	36	28%	Hong et al. 2006
		Austronesian	Yami	Taiwan, China	30	13%	Trejaut et al. 2014
	Mienic						
		Hmong-Mien	Yao (Lowland)	Southern China	31	45%	Cai et al. 2011
		Hmong-Mien	IuMien	North Thailand	10	40%	Kutanan et al. 2020
		Hmong-Mien	Mien	Guangxi, China	11	36%	Arunkumar et al. 2015
		Hmong-Mien	IuMien	North Thailand	17	35%	Kutanan et al. 2020
		Hmong-Mien	Mien (Southern)	Southern China	31	32%	Cai et al. 2011
		Hmong-Mien	Kimmun (Lowland)	Southern China	41	32%	Cai et al. 2011
		Hmong-Mien	Kimmun (Mountain)	Southern China	32	31%	Cai et al. 2011
		Hmong-Mien	Dao	Vietnam	43	31%	Macholdt et al. 2020
		Hmong-Mien	Mien (Northern)	Southern China	33	27%	Cai et al. 2011
		Hmong-Mien	Zaomin	Southern China	37	22%	Cai et al. 2011
		Hmong-Mien	Kimmun (Blue)	Southern China	28	18%	Cai et al. 2011
		Hmong-Mien	Mien (Western)	Southern China	47	15%	Cai et al. 2011
		Hmong-Mien	Mien (Native)	Southern China	41	10%	Cai et al. 2011
		Hmong-Mien	Yao (Liannan)	Southern China	35	6%	Xue et al. 2006
		Hmong-Mien	Mien (Straggler)	Southern China	20	5%	Cai et al. 2011
	Mongolic						
		Mongolic	Bonan	Northwest China	27	19%	Shou et al. 2010

Region	Language Group	Lang Family	Population	Location	Sample Size	O1b-M95	Reference
		Mongolic	Daur	Northeastern China	39	15%	Xue et al. 2006
		Mongolic	Mongols	China	73	7%	Arunkumar et al. 2015
Mon-Khmer							
		Austro-Asiatic	Lawa (Western)	North Thailand	17	100%	Kutanan et al. 2019
		Austro-Asiatic	Mlabri	North Thailand	10	100%	Kutanan et al. 2019
		Austro-Asiatic	Htin (Mal)	North Thailand	18	100%	Kutanan et al. 2019
		Austro-Asiatic	Khmu	Northeast Thailand	18	95%	Kutanan et al. 2019
		Austro-Asiatic	Lun	Northern Cambodia	13	92%	Zhang et al. 2014
		Austro-Asiatic	Lun	Ratanakri , Cambodia	13	92%	Zhang et al. 2015
		Austro-Asiatic	Kuy	Northern Cambodia	37	92%	Zhang et al. 2014
		Austro-Asiatic	Kuy	Stung Treng, Cambodia	37	92%	Zhang et al. 2015
		Austro-Asiatic	Khmer	Northeast Thailand	19	90%	Kutanan et al. 2019
		Austro-Asiatic	Suy	Laos	39	87%	Arunkumar et al. 2015
		Austro-Asiatic	Suy	Laos	39	87%	Cai et al. 2011
		Austro-Asiatic	Xinhmul	Laos	29	86%	Cai et al. 2011
		Austro-Asiatic	Xinhmul	Laos	29	86%	Arunkumar et al. 2015
		Austro-Asiatic	Lamet	Laos	35	86%	Cai et al. 2011
		Austro-Asiatic	Phai (Htin)	Northern Thailand	35	86%	Zhang et al. 2014
		Austro-Asiatic	Htin	Nan, Thailand	35	86%	Zhang et al. 2015
		Austro-Asiatic	Lamet	Laos	35	86%	Arunkumar et al. 2015

Region	Language Group	Lang Family	Population	Location	Sample Size	O1b-M95	Reference
		Austro-Asiatic	Bru	Northeast Thailand	18	84%	Kutanan et al. 2019
		Austro-Asiatic	Htin (Pray)	North Thailand	12	83%	Kutanan et al. 2019
		Austro-Asiatic	Htin (Pray)	North Thailand	17	82%	Kutanan et al. 2019
		Austro-Asiatic	Khmer	Northeast Thailand	10	80%	Kutanan et al. 2019
		Austro-Asiatic	Inh	Laos	34	79%	Cai et al. 2011
		Austro-Asiatic	Inh	Laos	34	79%	Arunkumar et al. 2015
		Austro-Asiatic	Mel	Kratie, Cambodia	19	79%	Zhang et al. 2015
		Austro-Asiatic	Mel	Northern Cambodia	19	79%	Zhang et al. 2014
		Austro-Asiatic	Phnong	Kratie, Cambodia	26	77%	Zhang et al. 2015
		Austro-Asiatic	Pnong	Northern Cambodia	26	77%	Zhang et al. 2014
		Austro-Asiatic	Kachac	Ratanakri , Cambodia	17	76%	Zhang et al. 2015
		Austro-Asiatic	Kachac	Northern Cambodia	17	76%	Zhang et al. 2014
		Austro-Asiatic	Alak	Laos	31	74%	Cai et al. 2011
		Austro-Asiatic	Mal	Laos	50	74%	Cai et al. 2011
		Austro-Asiatic	Mal	Laos	50	74%	Arunkumar et al. 2015
		Austro-Asiatic	Blang	North Thailand	18	73%	Kutanan et al. 2019
		Austro-Asiatic	Tompoun	Northern Cambodia	51	73%	Zhang et al. 2014
		Austro-Asiatic	Tompoun	Ratanakri , Cambodia	51	73%	Zhang et al. 2015
		Austro-Asiatic	Alak	Laos	31	71%	Arunkumar et al. 2015

Region	Language Group	Lang Family	Population	Location	Sample Size	O1b-M95	Reference
		Austro-Asiatic	Suay	Northeast Thailand	20	70%	Kutanan et al. 2019
		Austro-Asiatic	Katu	Laos	45	69%	Cai et al. 2011
		Austro-Asiatic	Katu	Laos	45	69%	Arunkumar et al. 2015
		Austro-Asiatic	Aheu	Laos	38	68%	Arunkumar et al. 2015
		Austro-Asiatic	Aheu	Laos	38	68%	Cai et al. 2011
		Austro-Asiatic	Bo	Laos	28	68%	Cai et al. 2011
		Austro-Asiatic	Bo	Laos	28	68%	Arunkumar et al. 2015
		Austro-Asiatic	Lawa (Western)	North Thailand	15	67%	Kutanan et al. 2019
		Austro-Asiatic	Khmu	Laos	51	67%	Arunkumar et al. 2015
		Austro-Asiatic	Stieng	Northern Cambodia	12	67%	Zhang et al. 2014
		Austro-Asiatic	Khmu	Laos	51	67%	Cai et al. 2011
		Austro-Asiatic	Talieng	Laos	35	66%	Arunkumar et al. 2015
		Austro-Asiatic	Talieng	Vietnam	35	66%	Cai et al. 2011
		Austro-Asiatic	Brau	Laos	32	66%	Arunkumar et al. 2015
		Austro-Asiatic	Brau	Laos	32	66%	Cai et al. 2011
		Austro-Asiatic	Soa	Northeast Thailand	17	65%	Kutanan et al. 2019
		Austro-Asiatic	Brao	Ratanakri , Cambodia	37	65%	Zhang et al. 2015
		Austro-Asiatic	Bru (Brao)	Northern Cambodia	37	65%	Zhang et al. 2014
		Austro-Asiatic	Kreung	Ratanakri , Cambodia	22	64%	Zhang et al. 2015
		Austro-Asiatic	Kreung	Northern Cambodia	22	64%	Zhang et al. 2014
		Austro-Asiatic	Oy	Laos	50	62%	Arunkumar et al. 2015

Region	Language Group	Lang Family	Population	Location	Sample Size	O1b-M95	Reference
		Austro-Asiatic	Oy	Laos	50	62%	Cai et al. 2011
		Austro-Asiatic	Mon	Northeast Thailand	19	58%	Kutanan et al. 2019
		Austro-Asiatic	Sô	Laos	50	54%	Arunkumar et al. 2015
		Austro-Asiatic	Sô	Laos	50	54%	Cai et al. 2011
		Austro-Asiatic	Bit	Laos	28	54%	Arunkumar et al. 2015
		Austro-Asiatic	Bit	Southern China	28	54%	Cai et al. 2011
		Austro-Asiatic	Khmer	Kratie, Cambodia	34	53%	Zhang et al. 2015
		Austro-Asiatic	Khmer	Northern Cambodia	34	53%	Zhang et al. 2014
		Austro-Asiatic	Kravet	Ratanakri , Cambodia	24	50%	Zhang et al. 2015
		Austro-Asiatic	Kravet	Northern Cambodia	24	50%	Zhang et al. 2014
		Austro-Asiatic	Bugan	Southern China	32	50%	Cai et al. 2011
		Austro-Asiatic	Ngeq	Laos	35	49%	Cai et al. 2011
		Austro-Asiatic	Ngeq	Laos	35	49%	Arunkumar et al. 2015
		Austro-Asiatic	Mon	Western Thailand	15	47%	Kutanan et al. 2019
		Austro-Asiatic	Jeh	Laos	32	47%	Arunkumar et al. 2015
		Austro-Asiatic	Jeh	Laos	32	47%	Cai et al. 2011
		Austro-Asiatic	Kinh	Vietnam	50	44%	Macholdt et al. 2020
		Austro-Asiatic	Laven	Laos	50	44%	Cai et al. 2011
		Austro-Asiatic	Laven	Laos	50	44%	Arunkumar et al. 2015
		Austro-Asiatic	Vietnamese	Vietnam	76	42%	He et al. 2012
		Austro-Asiatic	Kataang	Laos	38	39%	Arunkumar et al. 2015
		Austro-Asiatic	Kataang	Laos	38	37%	Cai et al. 2011

Region	Language Group	Lang Family	Population	Location	Sample Size	O1b-M95	Reference
		Austro-Asiatic	Lawa	Chiang Mai, Thailand	41	34%	Zhang et al. 2015
		Austro-Asiatic	Lawa	Northern Thailand	41	34%	Zhang et al. 2014
		Austro-Asiatic	Paluang	North Thailand	18	33%	Kutanan et al. 2019
		Austro-Asiatic	Mon	North Thailand	12	33%	Kutanan et al. 2019
		Austro-Asiatic	Bulang	Yunnan, China	55	31%	Zhang et al. 2015
		Austro-Asiatic	Bulang	Southwestern China	55	31%	Zhang et al. 2014
		Austro-Asiatic	Blang	Laos	52	31%	Cai et al. 2011
		Austro-Asiatic	Vietnamese	Vietnam	80	29%	Arunkumar et al. 2015
		Austro-Asiatic	Mon	Central Thailand	14	28%	Kutanan et al. 2019
		Austro-Asiatic	Vietnamese	Vietnam	70	27%	Karafet et al. 2010
		Austro-Asiatic	Nyahkur	Northeast Thailand	21	25%	Kutanan et al. 2019
		Austro-Asiatic	Lawa (Eastern)	North Thailand	16	24%	Kutanan et al. 2019
		Austro-Asiatic	Palyu	Southern China	30	23%	Cai et al. 2011
		Austro-Asiatic	Bolyu	Guangxi, China	30	23%	Li et al. 2008
		Austro-Asiatic	Palaung (De'ang)	Southwestern China	68	19%	Zhang et al. 2014
		Austro-Asiatic	De'ang	Yunnan, China	68	19%	Zhang et al. 2015
		Austro-Asiatic	Palaung (De'ang)	Northern Thailand	16	19%	Zhang et al. 2014
		Austro-Asiatic	Palaung	Chiang Mai, Thailand	16	19%	Zhang et al. 2015
		Austro-Asiatic	Mon	Central Thailand	14	14%	Kutanan et al. 2019
		Austro-Asiatic	Vietnamese	Vietnam	41	12%	Hong et al. 2006
		Austro-Asiatic	Mon	Western Thailand	18	12%	Kutanan et al. 2019

Region	Language Group	Lang Family	Population	Location	Sample Size	O1b-M95	Reference
		Austro-Asiatic	Wa	Yunnan, China	57	9%	Zhang et al. 2015
		Austro-Asiatic	Wa	Southwestern China	57	9%	Zhang et al. 2014
	Ngwi-Burmese	Austro-Asiatic	Mon	Central Thailand	13	8%	Kutanan et al. 2019
		Tibeto-Burman	Lolo	Vietnam	36	69%	Macholdt et al. 2020
		Tibeto-Burman	Hani	Southern China	34	50%	Xue et al. 2006
		Tibeto-Burman	Phunoi	Laos	27	48%	Arunkumar et al. 2015
		Tibeto-Burman	Lisu	North Thailand	15	33%	Kutanan et al. 2020
		Tibeto-Burman	Akha	Thailand	27	30%	Trejaut et al. 2014
		Tibeto-Burman	Mussur/Lahu (Red Lahu)	North Thailand	16	25%	Kutanan et al. 2020
		Tibeto-Burman	Lahu	Vietnam	31	23%	Macholdt et al. 2020
		Tibeto-Burman	Bamar	Myanmar	59	20%	Peng et al. 2014
		Tibeto-Burman	Mussur/Lahu (Black Lahu)	North Thailand	17	18%	Kutanan et al. 2020
		Tibeto-Burman	Yi (Yizu)	Yunnan Province, SW China	283	16%	Guo et al. 2019
		Tibeto-Burman	Hanhi	Vietnam	33	12%	Macholdt et al. 2020
		Tibeto-Burman	Phula	Vietnam	35	11%	Macholdt et al. 2020
	Northeastern Tibeto-Burman						
		Tibeto-Burman	Qiang	Central China	33	48%	Xue et al. 2006
		Tibeto-Burman	Horpa (Danba)	Sichuan, China	18	11%	Wang et al. 2014
		Tibeto-Burman	Bai	Yunnan Province, SW China	278	10%	Guo et al. 2019
		Tibeto-Burman	Southern Tǔjiā	Hunan Province, Central China	12	8%	Xia et al. 2019

Region	Language Group	Lang Family	Population	Location	Sample Size	O1b-M95	Reference
	Sal	Tibeto-Burman	Mandarin Tǔjiā	Hunan Province, Central China	53	8%	Xia et al. 2019
		Tibeto-Burman	Jingpo	Yunnan Province, SW China	249	8%	Xu et al. 2019
Tai-Kadai							
		Tai-Kadai	Lachi	Vietnam	36	30%	Macholdt et al. 2020
Indian Ocean							
Malayo-Polynesian							
		Austronesian	Antemoro (Antalaotra)	Madagascar	43	28%	Capredon et al. 2013
		Austronesian	Highland Malagasy	Madagascar	133	14%	Tofanelli et al. 2009
		Austronesian	Malagasy Cotiers	Madagascar	59	8%	Tofanelli et al. 2009
		Austronesian	Antemoro (Anteony)	Madagascar	40	5%	Capredon et al. 2013
Mon-Khmer							
		Austro-Asiatic	Shompen	Nicobar Islands	12	100%	Arunkumar et al. 2015
		Austro-Asiatic	Nicobarese	Nicobar Islands	11	100%	Arunkumar et al. 2015
		Austro-Asiatic	Shompen	Nicobar Islands	12	100%	Trivedi et al. 2006
Island Southeast Asia							
Malayo-Polynesian							
		Austronesian	Balinese	Bali	641	57%	Karafet et al. 2010
		Austronesian	Bali	Indonesia	641	57%	Arunkumar et al. 2015
		Austronesian	Javanese	Java, Indonesia	61	49%	Karafet et al. 2010
		Austronesian	Java	Java, Indonesia	114	46%	Arunkumar et al. 2015

Region	Language Group	Lang Family	Population	Location	Sample Size	O1b-M95	Reference
		Austronesian	Mataran	Indonesia	40	43%	Arunkumar et al. 2015
		Austronesian	Banjarmasin	Indonesia	27	33%	Arunkumar et al. 2015
		Austronesian	Torajan	Indonesia	15	33%	Li et al. 2008
		Austronesian	Malay	Malaysia	50	32%	Arunkumar et al. 2015
		Austronesian	Banjar	Indonesia	15	27%	Li et al. 2008
		Austronesian	Borneo	Borneo	126	26%	Arunkumar et al. 2015
		Austronesian	Pekanbaru	Indonesia	31	26%	Arunkumar et al. 2015
		Austronesian	Bangka	Indonesia	13	23%	Li et al. 2008
		Austronesian	Bornean	Borneo, Indonesia	86	21%	Karafet et al. 2010
		Austronesian	Sasak	Indonesia	15	20%	Li et al. 2008
		Austronesian	Palembang	Indonesia	11	18%	Li et al. 2008
		Austronesian	Palu	Indonesia	28	18%	Arunkumar et al. 2015
		Austronesian	Toraja	Indonesia	49	16%	Arunkumar et al. 2015
		Austronesian	Kota Kinabalu	Malaysia	44	16%	Arunkumar et al. 2015
		Austronesian	Sumatrans	Sumatra, Indonesia	38	16%	Karafet et al. 2010
		Austronesian	Sumatra	Indonesia	95	15%	Arunkumar et al. 2015
		Austronesian	Dayak	Indonesia	15	13%	Li et al. 2008
		Austronesian	Minangkabau	Indonesia	15	13%	Li et al. 2008
		Austronesian	Sulawesi	Sulawesi, Indonesia	54	13%	Karafet et al. 2010
		Austronesian	Sulawesi	Indonesia	54	13%	Arunkumar et al. 2015
		Austronesian	Ma'anyan	Borneo	159	9%	Kusuma et al. 2015
		Austronesian	Nias	Indonesia	12	8%	Li et al. 2008
		Austronesian	Makassar	Indonesia	13	8%	Li et al. 2008

Region	Language Group	Lang Family	Population	Location	Sample Size	O1b-M95	Reference
		Austronesian	Minahasa	Indonesia	14	7%	Li et al. 2008
		Austronesian	Kaili	Indonesia	15	7%	Li et al. 2008
		Austronesian	Kletek Suai	West Timor	15	7%	Tumonggor et al. 2014
Oceania							
	Malayo-Polynesian						
		Austronesian	Bellona	Solomon Islands	28	89%	Delfin et al. 2012
		Austronesian	Rennel	Solomon Islands	38	71%	Delfin et al. 2012
South Asia							
	Central Tibeto-Burman						
		Tibeto-Burman	Mishing	Northeast India	33	6%	Arunkumar et al. 2015
	Dravidian						
		Dravidian	Gadabas	Orissa, India	27	89%	Chaubey et al. 2011
		Dravidian	Porja	Andhra Pradesh, SE India	111	84%	Isukapatla et al. 2019
		Dravidian	Konda Reddy	South India	30	67%	Sengupta et al. 2006
		Dravidian	Dhongria Kondh	East India	86	62%	Arunkumar et al. 2015
		Dravidian	Nagesia	Chattishgarh, India	14	57%	Kumar et al. 2007
		Dravidian	Koya Dora	South India	27	48%	Sengupta et al. 2006
		Dravidian	Kamar	Central India	30	43%	Sengupta et al. 2006
		Dravidian	Binjhal	East India	109	39%	Arunkumar et al. 2015
		Dravidian	Oraon	East India	116	35%	Arunkumar et al. 2015
		Dravidian	Oraon	India: Jharkhand and Chattisgarh	91	32%	Kumar et al. 2007
		Dravidian	Gond Ori	East India	102	26%	Arunkumar et al. 2015
		Dravidian	Kisan	East India	105	25%	Arunkumar et al. 2015

Region	Language Group	Lang Family	Population	Location	Sample Size	O1b-M95	Reference
		Dravidian	Koya	East India	103	24%	Arunkumar et al. 2015
		Dravidian	Konda Kammara	East India	51	24%	Arunkumar et al. 2015
		Dravidian	Gond	Central India	40	20%	Arunkumar et al. 2015
		Dravidian	Konda Reddy	East India	49	18%	Arunkumar et al. 2015
		Dravidian	Oraon	Northeastern India	110	11%	Borkar et al. 2011
		Dravidian	Muria	Central India	20	10%	Sengupta et al. 2006
		Dravidian	Jalari	East India	99	8%	Arunkumar et al. 2015
	Indo-Aryan	Indo-European	Bhuiyan	Orissa, India	81	84%	Kumar et al. 2007
		Indo-European	Baiga	Orissa, India	42	81%	Chaubey et al. 2011
		Indo-European	Mawasi	Jharkhand, India	27	67%	Chaubey et al. 2011
		Indo-European	Pando	Chattishgarh, India	23	65%	Kumar et al. 2007
		Indo-European	Baiga	Madhya-Pradesh, India	23	52%	Chaubey et al. 2011
		Indo-European	Kamar	Central India	20	50%	Arunkumar et al. 2015
		Indo-European	Kanwar	Chattishgarh, India	41	39%	Kumar et al. 2007
		Indo-European	Bathudi	Orissa, India	36	36%	Kumar et al. 2007
		Indo-European	Halba	Central India	21	29%	Sengupta et al. 2006
		Indo-European	Chakma	Bangladesh	89	16%	Gazi et al. 2013
		Indo-European	Rajbanshi	Northeastern India	45	16%	Borkar et al. 2011
		Indo-European	Kolam	West India	37	14%	Arunkumar et al. 2015
		Indo-European	Paharia	Northeastern India	100	13%	Borkar et al. 2011

Region	Language Group	Lang Family	Population	Location	Sample Size	O1b-M95	Reference
		Indo-European	Tharu	Morang, Nepal	37	11%	Fornarino et al. 2009
		Indo-European	Lodha	West Bengal, India	47	9%	Kumar et al. 2007
	Mon-Khmer	Indo-European	Relli	East India	109	6%	Arunkumar et al. 2015
		Austro-Asiatic	Khasi	Meghalaya, India	21	48%	Chaubey et al. 2011
		Austro-Asiatic	Khasi	Meghalaya, India	92	41%	Kumar et al. 2007
	Munda	Austro-Asiatic	Khasi	Northeast India	98	31%	Arunkumar et al. 2015
		Austro-Asiatic	Juang	Orissa, India	49	98%	Kumar et al. 2007
		Austro-Asiatic	Birhor	Chattishgarh, India	27	96%	Chaubey et al. 2011
		Austro-Asiatic	Birjia	Jharkhand, India	24	96%	Kumar et al. 2007
		Austro-Asiatic	Bonda	Orissa, India	42	95%	Chaubey et al. 2011
		Austro-Asiatic	Birhor	Maharastra, India	35	94%	Chaubey et al. 2011
		Austro-Asiatic	Juang	Orissa, India	54	89%	Chaubey et al. 2011
		Austro-Asiatic	Savara	Andhra Pradesh, SE India	106	86%	Isukapatla et al. 2019
		Austro-Asiatic	Ho	Bihar, India	45	84%	Chaubey et al. 2011
		Austro-Asiatic	Korku	Maharashtra, India	59	81%	Kumar et al. 2007
		Austro-Asiatic	Ho	East India	30	80%	Sengupta et al. 2006
		Austro-Asiatic	Gadaba	East India	84	80%	Arunkumar et al. 2015
		Austro-Asiatic	Asur	Jharkhand, India	48	73%	Chaubey et al. 2011
		Austro-Asiatic	Santhal (Santal)	East India	14	71%	Sengupta et al. 2006
		Austro-Asiatic	Kharia	Eastern India	34	71%	Debnath et al. 2011

Region	Language Group	Lang Family	Population	Location	Sample Size	O1b-M95	Reference
		Austro-Asiatic	Santhal (Santal)	Northeastern India	90	69%	Borkar et al. 2011
		Austro-Asiatic	Langia Soura	East India	64	69%	Arunkumar et al. 2015
		Austro-Asiatic	Ho	Northeastern India	28	68%	Borkar et al. 2011
		Austro-Asiatic	Asur	Jharkhand, India	55	64%	Kumar et al. 2007
		Austro-Asiatic	Birhor	Jharkhand and West Bengal, India	38	63%	Kumar et al. 2007
		Austro-Asiatic	Bhumij	Jharkhand and West Bengal, India	89	63%	Kumar et al. 2007
		Austro-Asiatic	Ho	East India	115	63%	Arunkumar et al. 2015
		Austro-Asiatic	Korwa	Jharkhand and Chattisgarh, India	42	60%	Kumar et al. 2007
		Austro-Asiatic	Savara	Orissa, India	21	52%	Chaubey et al. 2011
		Austro-Asiatic	Munda	East India	104	49%	Arunkumar et al. 2015
		Austro-Asiatic	Kharia	Chattishgarh, India	37	49%	Chaubey et al. 2011
		Austro-Asiatic	Birhor	Northeastern India	100	48%	Borkar et al. 2011
		Austro-Asiatic	Korku	West India	66	47%	Arunkumar et al. 2015
		Austro-Asiatic	Santhal (Santal)	Jharkhand and West Bengal, India	109	47%	Kumar et al. 2007
		Austro-Asiatic	Bondo Lower	East India	28	46%	Arunkumar et al. 2015
		Austro-Asiatic	Munda	India: Jharkhand, West Bengal, Orissa	53	45%	Kumar et al. 2007
		Austro-Asiatic	Santal	East India	121	43%	Arunkumar et al. 2015

Region	Language Group	Lang Family	Population	Location	Sample Size	O1b-M95	Reference
		Austro-Asiatic	Kharia	India: Jharkhand, West Bengal, Orissa	36	39%	Kumar et al. 2007
		Austro-Asiatic	Ho	Orissa, India	79	38%	Kumar et al. 2007
		Austro-Asiatic	Santhal (Santal)	Eastern India	51	37%	Debnath et al. 2011
		Austro-Asiatic	Kol	Eastern India	62	37%	Debnath et al. 2011
		Austro-Asiatic	Munda	Northeastern India	94	35%	Borkar et al. 2011
		Austro-Asiatic	Santhal (Santal)	Jharkhand, India	20	35%	Chaubey et al. 2011
		Austro-Asiatic	Bondo	East India	48	31%	Arunkumar et al. 2015
		Austro-Asiatic	Mahali	Jharkhand, India	32	19%	Chaubey et al. 2011
		Austro-Asiatic	Savara	India: Jharkhand, West Bengal, Orissa	47	15%	Kumar et al. 2007
		Austro-Asiatic	Mahali	Jharkhand and West Bengal, India	25	12%	Kumar et al. 2007
Ngwi-Burmese							
	Sal	Tibeto-Burman	Marma	Bangladesh	60	17%	Gazi et al. 2013
		Tibeto-Burman	Mech	Northeastern India	20	55%	Borkar et al. 2011
		Tibeto-Burman	Mizo	Northeast India	27	48%	Sengupta et al. 2006
		Tibeto-Burman	Kuki	Northeast India	77	44%	Arunkumar et al. 2015
		Tibeto-Burman	Mech	Eastern India	19	21%	Debnath et al. 2011
		Tibeto-Burman	Garo	Northeast India	107	21%	Arunkumar et al. 2015
		Tibeto-Burman	Karbi	Northeast India	109	19%	Arunkumar et al. 2015
		Tibeto-Burman	Tripuri	Bangladesh	88	18%	Gazi et al. 2013

Region	Language Group	Lang Family	Population	Location	Sample Size	O1b-M95	Reference
		Tibeto-Burman	Garos	Meghalaya, India	33	18%	Kumar et al. 2007
		Tibeto-Burman	Garos	Meghalaya, India	25	16%	Chaubey et al. 2011
		Tibeto-Burman	Jamatia	Northeast India	30	7%	Sengupta et al. 2006
	Western Tibeto-Burman						
		Tibeto-Burman	Lachung	Northeastern India	20	45%	Borkar et al. 2011

Supplementary Table 16.10. Contemporary Distribution of O2a-M7.

Region	Language Group	Lang Family	Population	Location	Sample Size	O2a-M7	Reference
East Asia							
	Chinese						
		Chinese	Gàn	Hunan Province, Central China	103	8%	Xia et al. 2019
		Chinese	Han	Meixian, China	35	6%	Xue et al. 2006
		Chinese	Wǎxiāng	Hunan Province, Central China	39	5%	Xia et al. 2019
		Chinese	SW Mandarin	Hunan Province, Central China	99	5%	Xia et al. 2019
	Hmongic						
	Hmong-Mien	Hmong (Black Hmong)		North Thailand	8	100%	Kutanan et al. 2020
	Hmong-Mien	Hmong (Black Hmong)		North Thailand	21	86%	Kutanan et al. 2020
	Hmong-Mien	Pathen		Vietnam	36	44%	Macholdt et al. 2020
	Hmong-Mien	Hmong (White Hmong)		North Thailand	23	43%	Kutanan et al. 2020
	Hmong-Mien	Miao		China	58	36%	Karafet et al. 2010
	Hmong-Mien	Hmong (Daw)		Southern China	51	33%	Cai et al. 2011
	Hmong-Mien	Hmong (Black Hmong)		North Thailand	19	26%	Kutanan et al. 2020
	Hmong-Mien	Hmong (White Hmong)		North Thailand	13	23%	Kutanan et al. 2020
	Hmong-Mien	Hmong		Hunan Province, Central China	95	20%	Xia et al. 2019
	Hmong-Mien	Hmong		Vietnam	41	15%	Macholdt et al. 2020
	Hmong-Mien	Miao (Yunnan)		Southern China	49	12%	Cai et al. 2011

Region	Language Group	Lang Family	Population	Location	Sample Size	O2a-M7	Reference
		Hmong-Mien	Bunu (Southern)	Southern China	20	10%	Cai et al. 2011
	Ho Nte						
		Hmong-Mien	She	China	51	57%	Karafet et al. 2010
		Hmong-Mien	She	Southeastern China	34	29%	Xue et al. 2006
	Ho The						
		Hmong-Mien	She (Northern)	Southern China	56	25%	Cai et al. 2011
	Kam-Tai						
		Tai-Kadai	Laolsan	Northeast Thailand	18	33%	Kutanan et al. 2019
		Tai-Kadai	Bouyei (Buyi)	Southern China	35	17%	Xue et al. 2006
		Tai-Kadai	Phutai	Northeast Thailand	18	17%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	North Thailand	18	17%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	19	16%	Kutanan et al. 2019
		Tai-Kadai	Khon Mueang	North Thailand	13	15%	Kutanan et al. 2019
		Tai-Kadai	Phutai	Northeast Thailand	24	13%	Kutanan et al. 2020
		Tai-Kadai	Phuan	Central Thailand	18	12%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	18	12%	Kutanan et al. 2019
		Tai-Kadai	Khon Mueang	North Thailand	17	12%	Kutanan et al. 2019
		Tai-Kadai	Lue	North Thailand	17	12%	Kutanan et al. 2019
		Tai-Kadai	Black Thai	Northeast Thailand	18	11%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	19	11%	Kutanan et al. 2019
		Tai-Kadai	Shan	North Thailand	20	10%	Kutanan et al. 2020
		Tai-Kadai	Mulam	Guangxi, China	11	9%	Gan et al. 2008
		Tai-Kadai	Khon Muang	Northern Thailand	191	9%	Brunelli et al. 2017
		Tai-Kadai	Yuan	Central Thailand	12	8%	Kutanan et al. 2019
		Tai-Kadai	Lue	North Thailand	13	8%	Kutanan et al. 2019

Region	Language Group	Lang Family	Population	Location	Sample Size	O2a-M7	Reference
		Tai-Kadai	Yong	Northern Thailand	26	8%	Brunelli et al. 2017
		Tai-Kadai	Yuan	North Thailand	14	7%	Kutanan et al. 2019
		Tai-Kadai	Lue	Northern Thailand	91	7%	Brunelli et al. 2017
		Tai-Kadai	Shan	North Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Nyaw	Northeast Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Tay	Vietnam	47	6%	Macholdt et al. 2020
		Tai-Kadai	Khon Mueang	North Thailand	17	6%	Kutanan et al. 2019
		Tai-Kadai	Laotian	Laos	20	5%	Kutanan et al. 2019
		Tai-Kadai	Shan	Northern Thailand	20	5%	Brunelli et al. 2017
		Tai-Kadai	Laotian	Laos	20	5%	Kutanan et al. 2019
Karenic							
		Tibeto-Burman	Karen (Skaw Karen)	North Thailand	15	20%	Kutanan et al. 2020
		Tibeto-Burman	Karen (Skaw)	North Thailand	12	17%	Kutanan et al. 2019
Malayo-Polynesian							
		Austronesian	Giarai	Vietnam	27	15%	Macholdt et al. 2020
		Austronesian	Malaysians	Malaysia	32	13%	Karafet et al. 2010
		Austronesian	Ede	Vietnam	24	8%	Macholdt et al. 2020
		Austronesian	Cham	Vietnam	59	5%	He et al. 2012
Mienic							
		Hmong-Mien	Yao (Liannan)	Southern China	35	51%	Xue et al. 2006
		Hmong-Mien	Yao	China	60	48%	Karafet et al. 2010
		Hmong-Mien	Yao (Bama)	Southern China	35	34%	Xue et al. 2006
		Hmong-Mien	Pahng	Hunan Province, Central China	21	33%	Xia et al. 2019

Region	Language Group	Lang Family	Population	Location	Sample Size	O2a-M7	Reference
		Hmong-Mien	Zaomin	Southern China	37	32%	Cai et al. 2011
		Hmong-Mien	IuMien	North Thailand	10	10%	Kutanan et al. 2020
		Hmong-Mien	Mien (Native)	Southern China	41	7%	Cai et al. 2011
		Hmong-Mien	Dao	Vietnam	43	7%	Macholdt et al. 2020
		Hmong-Mien	Mien (Southern)	Southern China	31	6%	Cai et al. 2011
		Hmong-Mien	Mien	Hunan Province, Central China	33	6%	Xia et al. 2019
		Hmong-Mien	Mien (Straggler)	Southern China	20	5%	Cai et al. 2011
	Mon-Khmer						
		Austro-Asiatic	Ngeq	Laos	35	49%	Cai et al. 2011
		Austro-Asiatic	Jeh	Laos	32	47%	Cai et al. 2011
		Austro-Asiatic	Oy	Laos	50	34%	Cai et al. 2011
		Austro-Asiatic	Brau	Laos	32	25%	Cai et al. 2011
		Austro-Asiatic	Mon	Central Thailand	13	24%	Kutanan et al. 2019
		Austro-Asiatic	Laven	Laos	50	24%	Cai et al. 2011
		Austro-Asiatic	Talieng	Vietnam	35	23%	Cai et al. 2011
		Austro-Asiatic	Katu	Laos	45	22%	Cai et al. 2011
		Austro-Asiatic	Kataang	Laos	38	18%	Cai et al. 2011
		Austro-Asiatic	Suay	Northeast Thailand	20	15%	Kutanan et al. 2019
		Austro-Asiatic	Nyahkur	Northeast Thailand	21	14%	Kutanan et al. 2019
		Austro-Asiatic	Alak	Laos	31	13%	Cai et al. 2011
		Austro-Asiatic	Soa	Northeast Thailand	17	12%	Kutanan et al. 2019
		Austro-Asiatic	Vietnamese	Vietnam	76	11%	He et al. 2012
		Austro-Asiatic	Khmer	Northeast Thailand	19	10%	Kutanan et al. 2019
		Austro-Asiatic	Inh	Laos	34	9%	Cai et al. 2011

Region	Language Group	Lang Family	Population	Location	Sample Size	O2a-M7	Reference
		Austro-Asiatic	Sô	Laos	50	8%	Cai et al. 2011
		Austro-Asiatic	Kinh	Vietnam	50	8%	Macholdt et al. 2020
		Austro-Asiatic	Bo	Laos	28	7%	Cai et al. 2011
		Austro-Asiatic	Mon	Western Thailand	18	6%	Kutanan et al. 2019
		Austro-Asiatic	Vietnamese	Vietnam	70	6%	Karafet et al. 2010
		Austro-Asiatic	Lamet	Laos	35	6%	Cai et al. 2011
	Ngwi-Burmese						
		Tibeto-Burman	Lisu	North Thailand	15	7%	Kutanan et al. 2020
		Tibeto-Burman	Lolo	Vietnam	36	6%	Macholdt et al. 2020
	Northeastern Tibeto-Burman						
		Tibeto-Burman	Southern Tǔjiǎ	Hunan Province, Central China	12	25%	Xia et al. 2019
		Tibeto-Burman	Tujia	China	49	6%	Karafet et al. 2010
		Tibeto-Burman	Horpa (Danba)	Sichuan, China	18	6%	Wang et al. 2014
Island Southeast Asia							
	Malayo-Polynesian						
		Austronesian	Bornean	Borneo, Indonesia	86	20%	Karafet et al. 2010
		Austronesian	Javanese	Java, Indonesia	61	11%	Karafet et al. 2010
		Austronesian	Tengger	Indonesia	12	8%	Li et al. 2008
		Austronesian	Bangka	Indonesia	13	8%	Li et al. 2008
		Austronesian	Torajan	Indonesia	15	7%	Li et al. 2008

Supplementary Table 16.11. Contemporary Distribution of O2a-M133.

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-M133	Reference
East Asia							
	Chinese						
		Chinese	Taiwanese Han	Taiwan, China	352	22%	Trejaut et al. 2014
	Formosan						
		Austronesian	Yunlin	Taiwan, China	21	38%	Trejaut et al. 2014
		Austronesian	Siraya (Kaohsiung)	Taiwan, China	40	35%	Trejaut et al. 2014
		Austronesian	Papura	Taiwan, China	18	22%	Trejaut et al. 2014
		Austronesian	Kategalan	Taiwan, China	30	17%	Trejaut et al. 2014
		Austronesian	Siraya (Tainen Coast)	Taiwan, China	38	13%	Trejaut et al. 2014
		Austronesian	Pazeh	Taiwan, China	40	10%	Trejaut et al. 2014
		Austronesian	Siraya (Tainan)	Taiwan, China	30	10%	Trejaut et al. 2014
		Austronesian	Siraya (Hwalien)	Taiwan, China	38	8%	Trejaut et al. 2014
	Kam-Tai						
		Tai-Kadai	Khon Mueang	North Thailand	13	46%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Western Thailand	18	40%	Kutanan et al. 2019
		Tai-Kadai	Shan	North Thailand	18	39%	Kutanan et al. 2019
		Tai-Kadai	Khon Mueang	North Thailand	17	35%	Kutanan et al. 2019
		Tai-Kadai	Khon Mueang	North Thailand	13	31%	Kutanan et al. 2019
		Tai-Kadai	Yuan	North Thailand	14	29%	Kutanan et al. 2019
		Tai-Kadai	Laotian	Laos	20	25%	Kutanan et al. 2019
		Tai-Kadai	Kalueng	Northeast Thailand	17	24%	Kutanan et al. 2019
		Tai-Kadai	Phuan	North Thailand	17	24%	Kutanan et al. 2019
		Tai-Kadai	Khon Mueang	North Thailand	17	24%	Kutanan et al. 2019

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-M133	Reference
		Tai-Kadai	Central Thai	Central Thailand	18	22%	Kutanan et al. 2019
		Tai-Kadai	Lue	North Thailand	17	18%	Kutanan et al. 2019
		Tai-Kadai	Nyaw	Northeast Thailand	18	17%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	18	17%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	19	16%	Kutanan et al. 2019
		Tai-Kadai	Lue	North Thailand	13	15%	Kutanan et al. 2019
		Tai-Kadai	Khuen	North Thailand	17	12%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	North Thailand	18	11%	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	9	11%	Kutanan et al. 2019
		Tai-Kadai	Black Thai	Northeast Thailand	18	11%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	19	11%	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Black Thai	Central Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Phuan	Central Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	17	6%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	19	5%	Kutanan et al. 2019
		Tai-Kadai	Laotian	Laos	20	5%	Kutanan et al. 2019
	Karenic						
		Tibeto-Burman	Karen (Skaw)	North Thailand	8	38%	Kutanan et al. 2019
		Tibeto-Burman	Karen (Paduang)	North Thailand	11	36%	Kutanan et al. 2019
		Tibeto-Burman	Karen (Pwo)	North Thailand	11	27%	Kutanan et al. 2019
		Tibeto-Burman	Karen (Skaw)	North Thailand	12	25%	Kutanan et al. 2019
	Koreanic						
		Koreanic	Koreans	Korea	706	12%	Park et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	O2a-M133	Reference
	Mienic						
		Hmong-Mien	IuMien	North Thailand	10	20%	Kutanan et al. 2020
	Mon-Khmer						
		Austro-Asiatic	Paluang	North Thailand	18	50%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Central Thailand	13	31%	Kutanan et al. 2019
		Austro-Asiatic	Nyahkur	Northeast Thailand	21	29%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Central Thailand	14	21%	Kutanan et al. 2019
		Austro-Asiatic	Lawa (Western)	North Thailand	15	20%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Western Thailand	18	17%	Kutanan et al. 2019
		Austro-Asiatic	Blang	North Thailand	18	17%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Central Thailand	14	14%	Kutanan et al. 2019
		Austro-Asiatic	Soa	Northeast Thailand	17	12%	Kutanan et al. 2019
		Austro-Asiatic	Mon	North Thailand	12	8%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Western Thailand	15	7%	Kutanan et al. 2019
		Austro-Asiatic	Khmu	Northeast Thailand	18	6%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Northeast Thailand	19	5%	Kutanan et al. 2019
	Ngwi-Burmese						
		Tibeto-Burman	Lisu	North Thailand	15	7%	Kutanan et al. 2020

Supplementary Table 16.12. Contemporary Distribution of O1b-SRY465.

Region	Language Group	Language Family	Population	Location	Sample Size	O1b-SRY465	Reference
East Asia							
	Chinese						
		Chinese	Han	Yunnan	41	10%	Hong et al. 2006
		Chinese	Han	Beijing	65	6%	Hong et al. 2006
	Japonic						
		Japonic	Japanese	Japan	263	33%	Naitoh et al. 2013
		Japonic	Japanese	Japan	2390	32%	Sato et al. 2014
		Japonic	Japanese	Japan	157	29%	Kim et al. 2011
		Japonic	Japanese	Japan	107	26%	Hong et al. 2006
	Koreanic						
		Koreanic	Koreans	Korea	706	32%	Kwon et al. 2015
		Koreanic	Koreans	Korea	706	32%	Park et al. 2012
		Koreanic	Koreans	Korea	506	31%	Kim et al. 2011
		Koreanic	Koreans	Korea	154	20%	Hong et al. 2006
	Malayo-Polynesian						
		Austronesian	Indonesians	Indonesia	36	19%	Hong et al. 2006
	Mon-Khmer						
		Austro-Asiatic	Vietnamese	Vietnam	41	17%	Hong et al. 2006
	Tungusic						
		Tungusic	Manchu	Manchuria	48	27%	Hong et al. 2006
		Tungusic	Manchu	Northeastern China	35	6%	Xue et al. 2006
Northern Eurasia							
	Tungusic						

Region	Language Group	Language Family	Population	Location	Sample Size	O1b-SRY465	Reference
		Tungusic	Udege	Southeastern Siberia	21	10%	Jin et al. 2010

Supplementary Table 16.13. Contemporary Distribution of O1b-47z.

Region	Language Group	Language Family	Population	Location	Sample Size	O1b-47z	Reference
East Asia							
Japonic							
		Japonic	Japanese	Japan	263	25%	Naitoh et al. 2013
		Japonic	Japanese	Japan	157	24%	Kim et al. 2011
		Japonic	Japanese	Japan	2390	22%	Sato et al. 2014
		Japonic	Japanese	Japan	107	20%	Hong et al. 2006
Koreanic							
		Koreanic	Koreans	Korea	706	10%	Kwon et al. 2015
		Koreanic	Koreans	Korea	706	10%	Park et al. 2012
		Koreanic	Koreans	Korea	506	9%	Kim et al. 2011
		Koreanic	Koreans	Korea	154	6%	Hong et al. 2006
Tungusic							
		Tungusic	Manchu	Manchuria	48	19%	Hong et al. 2006

Supplementary Table 16.14. Contemporary Distribution of O1b-F1252.

Region	Language Group	Language Family	Population	Location	Sample Size	O1b-F1252	Reference
East Asia							
	Kam-Tai						
		Tai-Kadai	Zhuàng	Hunan Province, Central China	5	16%	Xia et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	9	7%	Kutanan et al. 2019
		Tai-Kadai	Seak	Northeast Thailand	7	6%	Kutanan et al. 2019
		Tai-Kadai	Black Thai	Central Thailand	18	5%	Kutanan et al. 2019
	Mon-Khmer						
		Austro-Asiatic	Mlabri	North Thailand	10	10%	Kutanan et al. 2019
		Austro-Asiatic	Khmer	Northeast Thailand	10	8%	Kutanan et al. 2019
		Austro-Asiatic	Htin (Pray)	North Thailand	12	7%	Kutanan et al. 2019
		Austro-Asiatic	Lawa (Western)	North Thailand	17	6%	Kutanan et al. 2019
		Austro-Asiatic	Htin (Mal)	North Thailand	18	6%	Kutanan et al. 2019
		Austro-Asiatic	Khmu	Northeast Thailand	18	5%	Kutanan et al. 2019

Supplementary Table 16.15. Contemporary Distribution of O1b-M111.

Region	Language Group	Language Family	Population	Location	Sample Size	O1b-M111	Reference
East Asia							
	Chinese						
		Chinese	Bái	Hunan Province, Central China	14	14%	Xia et al. 2019
		Chinese	Pinghua	Nanning, Guangxi, China	38	13%	Lu et al. 2013
		Chinese	Han	Chendu, China	34	12%	Xue et al. 2006
		Chinese	Pinghua	Tiandong, Guangxi, China	20	10%	Lu et al. 2013
		Chinese	Han	China	165	5%	Karafet et al. 2010
	Formosan						
		Austronesian	Bunun	Taiwan, China	56	38%	Trejaut et al. 2014
		Austronesian	Bunun	Taiwan, China	17	18%	Li et al. 2008
		Austronesian	Saisat	Taiwan, China	11	9%	Li et al. 2008
		Austronesian	Papura	Taiwan, China	18	6%	Trejaut et al. 2014
	Hmongic						
		Hmong-Mien	Bunu (Southern)	Southern China	20	20%	Cai et al. 2011
		Hmong-Mien	Pathen	Vietnam	36	8%	Macholdt et al. 2020
		Hmong-Mien	Hmong (White Hmong)	North Thailand	13	8%	Kutanan et al. 2020
		Hmong-Mien	Miao	China	58	7%	Karafet et al. 2010
		Hmong-Mien	Hmong (Daw)	Southern China	51	6%	Cai et al. 2011
		Hmong-Mien	Miao (Hunan)	Southern China	100	5%	Cai et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	O1b-M111	Reference
	Ho Nte						
		Hmong-Mien	She	China	51	35%	Karafet et al. 2010
	Kam-Tai						
		Tai-Kadai	Phutai	Northeast Thailand	18	50%	Kutanan et al. 2019
		Tai-Kadai	Black Thai	Central Thailand	18	45%	Kutanan et al. 2019
		Tai-Kadai	Zhuàng	Hunan Province, Central China	5	40%	Xia et al. 2019
		Tai-Kadai	Yong	Northern Thailand	26	38%	Brunelli et al. 2017
		Tai-Kadai	Lue	North Thailand	13	38%	Kutanan et al. 2019
		Tai-Kadai	Phuan	North Thailand	17	35%	Kutanan et al. 2019
		Tai-Kadai	Black Thai	Northeast Thailand	18	34%	Kutanan et al. 2019
		Tai-Kadai	Nung	Vietnam	37	32%	Macholdt et al. 2020
		Tai-Kadai	Lao Isan	Northeast Thailand	16	31%	Kutanan et al. 2020
		Tai-Kadai	Lue	Northern Thailand	91	31%	Brunelli et al. 2017
		Tai-Kadai	Lue	North Thailand	17	30%	Kutanan et al. 2019
		Tai-Kadai	Phutai	Northeast Thailand	24	25%	Kutanan et al. 2020
		Tai-Kadai	Kuen	Northern Thailand	24	25%	Brunelli et al. 2017
		Tai-Kadai	Khon Mueang	North Thailand	17	24%	Kutanan et al. 2019
		Tai-Kadai	Khuen	North Thailand	17	24%	Kutanan et al. 2019
		Tai-Kadai	Khon Mueang	North Thailand	17	24%	Kutanan et al. 2019

Region	Language Group	Language Family	Population	Location	Sample Size	O1b-M111	Reference
		Tai-Kadai	Laolsan	Northeast Thailand	18	23%	Kutanan et al. 2019
		Tai-Kadai	Khon Mueang	North Thailand	13	23%	Kutanan et al. 2019
		Tai-Kadai	Yuan	Northern Thailand	85	22%	Brunelli et al. 2017
		Tai-Kadai	Central Thai	Central Thailand	19	21%	Kutanan et al. 2019
		Tai-Kadai	Khon Muang	Northern Thailand	191	20%	Brunelli et al. 2017
		Tai-Kadai	Bouyei (Buyi)	Southern China	35	17%	Xue et al. 2006
		Tai-Kadai	Central Thai	Central Thailand	18	17%	Kutanan et al. 2019
		Tai-Kadai	Shan	North Thailand	18	17%	Kutanan et al. 2019
		Tai-Kadai	Yuan	Central Thailand	12	16%	Kutanan et al. 2019
		Tai-Kadai	Khon Mueang	North Thailand	13	16%	Kutanan et al. 2019
		Tai-Kadai	Kam	Hunan Province, Central China	71	15%	Xia et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	19	15%	Kutanan et al. 2019
		Tai-Kadai	Laotian	Laos	20	15%	Kutanan et al. 2019
		Tai-Kadai	Laotian	Laos	20	15%	Kutanan et al. 2019
		Tai-Kadai	Shan	Northern Thailand	20	15%	Brunelli et al. 2017
		Tai-Kadai	Seak	Northeast Thailand	7	14%	Kutanan et al. 2019
		Tai-Kadai	Phuan	Central Thailand	18	12%	Kutanan et al. 2019
		Tai-Kadai	Thai	Vietnam	24	12%	Macholdt et al. 2020
		Tai-Kadai	Laolsan	Northeast Thailand	17	12%	Kutanan et al. 2019

Region	Language Group	Language Family	Population	Location	Sample Size	O1b-M111	Reference
		Tai-Kadai	Central Thai	Western Thailand	18	11%	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	9	11%	Kutanan et al. 2019
		Tai-Kadai	Tay	Vietnam	47	10%	Macholdt et al. 2020
		Tai-Kadai	Yuan	North Thailand	14	7%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	North Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Nyaw	Northeast Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Kalueng	Northeast Thailand	17	6%	Kutanan et al. 2019
		Tai-Kadai	Thai	Northern Thailand	17	6%	He et al. 2012
		Tai-Kadai	Central Thai	Central Thailand	19	5%	Kutanan et al. 2019
		Tai-Kadai	Shan	North Thailand	20	5%	Kutanan et al. 2020
	Karenic						
		Tibeto-Burman	Karen (Skaw)	North Thailand	12	8%	Kutanan et al. 2019
	Kra						
		Tai-Kadai	Yerong	Guangxi, China	16	6%	Li et al. 2008
	Malayo-Polynesian						
		Austronesian	Cham	Vietnam	59	8%	He et al. 2012
		Austronesian	Ede	Vietnam	24	8%	Macholdt et al. 2020
	Mienic						
		Hmong-Mien	IuMien	North Thailand	10	30%	Kutanan et al. 2020
		Hmong-Mien	Yao (Lowland)	Southern China	31	29%	Cai et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	O1b-M111	Reference
		Hmong-Mien	Zaomin	Southern China	37	22%	Cai et al. 2011
		Hmong-Mien	IuMien	North Thailand	17	18%	Kutanan et al. 2020
		Hmong-Mien	Mien (Southern)	Southern China	31	13%	Cai et al. 2011
		Hmong-Mien	Dao	Vietnam	43	12%	Macholdt et al. 2020
		Hmong-Mien	Kimmun (Lowland)	Southern China	41	7%	Cai et al. 2011
		Hmong-Mien	Mien (Northern)	Southern China	33	6%	Cai et al. 2011
		Hmong-Mien	Mien (Straggler)	Southern China	20	5%	Cai et al. 2011
Mon-Khmer							
		Austro-Asiatic	Xinhmul	Laos	29	69%	Cai et al. 2011
		Austro-Asiatic	Soa	Northeast Thailand	17	41%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Western Thailand	15	34%	Kutanan et al. 2019
		Austro-Asiatic	Suy	Laos	39	31%	Cai et al. 2011
		Austro-Asiatic	Vietnamese	Vietnam	76	30%	He et al. 2012
		Austro-Asiatic	Bru	Northeast Thailand	18	28%	Kutanan et al. 2019
		Austro-Asiatic	Kinh	Vietnam	50	28%	Macholdt et al. 2020
		Austro-Asiatic	Kataang	Laos	38	26%	Cai et al. 2011
		Austro-Asiatic	Mon	Northeast Thailand	19	26%	Kutanan et al. 2019
		Austro-Asiatic	Vietnamese	Vietnam	70	20%	Karafet et al. 2010
		Austro-Asiatic	Htin (Mal)	North Thailand	18	17%	Kutanan et al. 2019
		Austro-Asiatic	Alak	Laos	31	16%	Cai et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	O1b-M111	Reference
		Austro-Asiatic	Aheu	Laos	38	16%	Cai et al. 2011
		Austro-Asiatic	Suay	Northeast Thailand	20	15%	Kutanan et al. 2019
		Austro-Asiatic	Lawa (Eastern)	North Thailand	16	12%	Kutanan et al. 2019
		Austro-Asiatic	Sô	Laos	50	12%	Cai et al. 2011
		Austro-Asiatic	Nyahkur	Northeast Thailand	21	10%	Kutanan et al. 2019
		Austro-Asiatic	Mal	Laos	50	8%	Cai et al. 2011
		Austro-Asiatic	Htin (Pray)	North Thailand	12	8%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Central Thailand	13	8%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Central Thailand	14	7%	Kutanan et al. 2019
		Austro-Asiatic	Khmu	Northeast Thailand	18	6%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Western Thailand	18	6%	Kutanan et al. 2019
		Austro-Asiatic	Lawa (Western)	North Thailand	17	6%	Kutanan et al. 2019
		Austro-Asiatic	Htin (Pray)	North Thailand	17	6%	Kutanan et al. 2019
		Austro-Asiatic	Khmu	Laos	51	6%	Cai et al. 2011
		Austro-Asiatic	Khmer	Northeast Thailand	19	5%	Kutanan et al. 2019
	Ngwi-Burmese						
		Tibeto-Burman	Lolo	Vietnam	36	69%	Macholdt et al. 2020
		Tibeto-Burman	Hani	Southern China	34	44%	Xue et al. 2006
		Tibeto-Burman	Akha	Thailand	27	26%	Trejaut et al. 2014
		Tibeto-Burman	Mussur/Lahu (Black Lahu)	North Thailand	17	18%	Kutanan et al. 2020
		Tibeto-Burman	Lisu	North Thailand	15	13%	Kutanan et al. 2020

Region	Language Group	Language Family	Population	Location	Sample Size	O1b-M111	Reference
		Tibeto-Burman	Lahu	Vietnam	31	13%	Macholdt et al. 2020
		Tibeto-Burman	Mussur/Lahu (Red Lahu)	North Thailand	16	13%	Kutanan et al. 2020
		Tibeto-Burman	Hanhi	Vietnam	33	12%	Macholdt et al. 2020
		Tibeto-Burman	Yi (Yizu)	Yunnan Province, SW China	283	8%	Guo et al. 2019
	Northeastern Tibeto-Burman						
		Tibeto-Burman	Qiang	Central China	33	39%	Xue et al. 2006
		Tibeto-Burman	Horpa (Danba)	Sichuan, China	18	11%	Wang et al. 2014
	Tai-Kadai						
		Tai-Kadai	Lachi	Vietnam	36	22%	Macholdt et al. 2020
Indian Ocean							
	Malayo-Polynesian						
		Austronesian	Antemoro (Antalaotra)	Madagascar	43	28%	Capredon et al. 2013
		Austronesian	Antemoro (Anteony)	Madagascar	40	5%	Capredon et al. 2013
Island Southeast Asia							
	Malayo-Polynesian						
		Austronesian	Nias	Indonesia	12	8%	Li et al. 2008
Oceania							
	Malayo-Polynesian						
		Austronesian	Bellona	Solomon Islands	28	89%	Delfin et al. 2012
		Austronesian	Rennel	Solomon Islands	38	71%	Delfin et al. 2012

Supplementary Table 16.16. Contemporary Distribution of O1b-M1283.

Region	Language Group	Language Family	Population	Location	Sample Size	O1b-M1283	Reference
East Asia							
	Kam-Tai						
		Tai-Kadai	Laolsan	Northeast Thailand	9	0.55	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	17	0.47	Kutanan et al. 2019
		Tai-Kadai	Black Thai	Central Thailand	18	0.44	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	18	0.39	Kutanan et al. 2019
		Tai-Kadai	Laotian	Laos	20	0.35	Kutanan et al. 2019
		Tai-Kadai	Kalueng	Northeast Thailand	17	0.35	Kutanan et al. 2019
		Tai-Kadai	Nyaw	Northeast Thailand	18	0.34	Kutanan et al. 2019
		Tai-Kadai	Yuan	Central Thailand	12	0.33	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	18	0.33	Kutanan et al. 2019
		Tai-Kadai	Laotian	Laos	20	0.30	Kutanan et al. 2019
		Tai-Kadai	Seak	Northeast Thailand	7	0.29	Kutanan et al. 2019
		Tai-Kadai	Yuan	North Thailand	14	0.28	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	18	0.28	Kutanan et al. 2019
		Tai-Kadai	Shan	North Thailand	18	0.28	Kutanan et al. 2019
		Tai-Kadai	Khon Mueang	North Thailand	17	0.24	Kutanan et al. 2019
		Tai-Kadai	Khon Mueang	North Thailand	13	0.23	Kutanan et al. 2019
		Tai-Kadai	Khuen	North Thailand	17	0.18	Kutanan et al. 2019
		Tai-Kadai	Khon Mueang	North Thailand	17	0.18	Kutanan et al. 2019
		Tai-Kadai	Lue	North Thailand	13	0.15	Kutanan et al. 2019
		Tai-Kadai	Phuan	North Thailand	17	0.12	Kutanan et al. 2019
		Tai-Kadai	Phutai	Northeast Thailand	18	0.12	Kutanan et al. 2019

Region	Language Group	Language Family	Population	Location	Sample Size	O1b-M1283	Reference
		Tai-Kadai	Phuan	Central Thailand	18	0.11	Kutanan et al. 2019
		Tai-Kadai	Black Thai	Northeast Thailand	18	0.11	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	18	0.11	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	19	0.10	Kutanan et al. 2019
		Tai-Kadai	Khon Mueang	North Thailand	13	0.08	Kutanan et al. 2019
		Tai-Kadai	Central Thai	North Thailand	18	0.06	Kutanan et al. 2019
		Tai-Kadai	Lue	North Thailand	17	0.06	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	19	0.05	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	19	0.05	Kutanan et al. 2019
	Karenic						
		Tibeto-Burman	Karen (Pwo)	North Thailand	11	0.36	Kutanan et al. 2019
		Tibeto-Burman	Karen (Paduang)	North Thailand	11	0.36	Kutanan et al. 2019
		Tibeto-Burman	Karen (Skaw)	North Thailand	8	0.26	Kutanan et al. 2019
		Tibeto-Burman	Karen (Skaw)	North Thailand	12	0.16	Kutanan et al. 2019
	Mon-Khmer						
		Austro-Asiatic	Mlabri	North Thailand	10	1.00	Kutanan et al. 2019
		Austro-Asiatic	Lawa (Western)	North Thailand	17	0.94	Kutanan et al. 2019
		Austro-Asiatic	Khmu	Northeast Thailand	18	0.89	Kutanan et al. 2019
		Austro-Asiatic	Khmer	Northeast Thailand	19	0.85	Kutanan et al. 2019
		Austro-Asiatic	Htin (Mal)	North Thailand	18	0.83	Kutanan et al. 2019
		Austro-Asiatic	Khmer	Northeast Thailand	10	0.80	Kutanan et al. 2019
		Austro-Asiatic	Htin (Pray)	North Thailand	17	0.76	Kutanan et al. 2019
		Austro-Asiatic	Htin (Pray)	North Thailand	12	0.75	Kutanan et al. 2019
		Austro-Asiatic	Blang	North Thailand	18	0.73	Kutanan et al. 2019
		Austro-Asiatic	Lawa (Western)	North Thailand	15	0.67	Kutanan et al. 2019

Region	Language Group	Language Family	Population	Location	Sample Size	O1b-M1283	Reference
		Austro-Asiatic	Bru	Northeast Thailand	18	0.56	Kutanan et al. 2019
		Austro-Asiatic	Suay	Northeast Thailand	20	0.55	Kutanan et al. 2019
		Austro-Asiatic	Paluang	North Thailand	18	0.33	Kutanan et al. 2019
		Austro-Asiatic	Mon	North Thailand	12	0.33	Kutanan et al. 2019
		Austro-Asiatic	Mon	Northeast Thailand	19	0.32	Kutanan et al. 2019
		Austro-Asiatic	Mon	Central Thailand	14	0.28	Kutanan et al. 2019
		Austro-Asiatic	Soa	Northeast Thailand	17	0.24	Kutanan et al. 2019
		Austro-Asiatic	Mon	Western Thailand	15	0.13	Kutanan et al. 2019
		Austro-Asiatic	Nyahkur	Northeast Thailand	21	0.10	Kutanan et al. 2019
		Austro-Asiatic	Mon	Central Thailand	14	0.07	Kutanan et al. 2019
		Austro-Asiatic	Mon	Western Thailand	18	0.06	Kutanan et al. 2019
		Austro-Asiatic	Lawa (Eastern)	North Thailand	16	0.06	Kutanan et al. 2019
South Asia							
	Indo-Aryan						
		Indo-European	Mawasi	India	39	0.51	Singh et al. 2021
		Indo-European	Baiga	India	65	0.12	Singh et al. 2021
	Mon-Khmer						
		Austro-Asiatic	Khasi	Meghalaya, India	21	0.24	Singh et al. 2021
	Munda						
		Austro-Asiatic	Santhal	India	20	0.25	Singh et al. 2021
		Austro-Asiatic	Asur	India	88	0.25	Singh et al. 2021
		Austro-Asiatic	Birhor	India	62	0.23	Singh et al. 2021
		Austro-Asiatic	Juang	India	54	0.22	Singh et al. 2021
		Austro-Asiatic	Ho	India	45	0.16	Singh et al. 2021
		Austro-Asiatic	Bondo	India	42	0.14	Singh et al. 2021

Region	Language Group	Language Family	Population	Location	Sample Size	O1b-M1283	Reference
		Austro-Asiatic	Gadaba	India	27	0.07	Singh et al. 2021

Supplementary Table 16.17. Contemporary Distribution of O1a-M119.

Region	Language Group	Language Family	Population	Location	Sample Size	O1a-M119	Reference
East Asia							
	Chinese						
		Chinese	Pinghua	Pingguo, Guangxi, China	123	29%	Lu et al. 2013
		Chinese	Tǔhuà	Hunan Province, Central China	17	24%	Xia et al. 2019
		Chinese	Wǎxiāng	Hunan Province, Central China	39	21%	Xia et al. 2019
		Chinese	Han	Meixian, China	35	20%	Xue et al. 2006
		Chinese	Gàn	Hunan Province, Central China	103	17%	Xia et al. 2019
		Chinese	SW Mandarin	Hunan Province, Central China	99	17%	Xia et al. 2019
		Chinese	Hakka	Hunan Province, Central China	113	17%	Xia et al. 2019
		Chinese	Taiwanese Han	Taiwan, China	352	16%	Trejaut et al. 2014
		Chinese	Han	Beijing, China	51	16%	Kim et al. 2011
		Chinese	Han	Chendu, China	34	15%	Xue et al. 2006
		Chinese	Xiāng	Hunan Province, Central China	148	13%	Xia et al. 2019
		Chinese	Han	Beijing	65	11%	Hong et al. 2006
		Chinese	Pinghua	Tiandong, Guangxi, China	20	10%	Lu et al. 2013
		Chinese	Han	Guangxi, China	82	10%	Zhao et al. 2010
		Chinese	Han	China	165	10%	Karafet et al. 2010
		Chinese	Han	Yili, China	32	9%	Xue et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	O1a-M119	Reference
		Chinese	Huí	Hunan Province, Central China	34	9%	Xia et al. 2019
		Chinese	Hui	Central China	35	9%	Xue et al. 2006
		Chinese	Pinghua	Nanning, Guangxi, China	38	8%	Lu et al. 2013
		Chinese	Han	Lanzhou, China	30	7%	Xue et al. 2006
	Formosan						
		Austronesian	Rukai	Taiwan, China	29	100%	Trejaut et al. 2014
		Austronesian	Rukai	Taiwan, China	11	100%	Li et al. 2008
		Austronesian	Tsou	Taiwan, China	41	100%	Trejaut et al. 2014
		Austronesian	Atayal	Taiwan, China	52	100%	Trejaut et al. 2014
		Austronesian	Thao	Taiwan, China	16	100%	Trejaut et al. 2014
		Austronesian	Atayal	Taiwan, China	22	95%	Li et al. 2008
		Austronesian	Taroko	Taiwan, China	20	95%	Trejaut et al. 2014
		Austronesian	Tsou	Taiwan, China	18	94%	Li et al. 2008
		Austronesian	Paiwan	Taiwan, China	25	92%	Trejaut et al. 2014
		Austronesian	Saisiyat	Taiwan, China	24	92%	Trejaut et al. 2014
		Austronesian	Paiwan	Taiwan, China	22	91%	Li et al. 2008
		Austronesian	Thao	Taiwan, China	22	86%	Li et al. 2008
		Austronesian	Puyuma	Taiwan, China	23	83%	Trejaut et al. 2014
		Austronesian	Pyuma	Taiwan, China	11	82%	Li et al. 2008
		Austronesian	Bunun	Taiwan, China	17	76%	Li et al. 2008
		Austronesian	Siraya Makato	Taiwan, China	37	70%	Li et al. 2008
		Austronesian	Pazeh	Taiwan, China	40	65%	Trejaut et al. 2014
		Austronesian	Amis	Taiwan, China	28	61%	Li et al. 2008
		Austronesian	Bunun	Taiwan, China	56	61%	Trejaut et al. 2014

Region	Language Group	Language Family	Population	Location	Sample Size	O1a-M119	Reference
		Austronesian	Siraya (Hwalien)	Taiwan, China	38	61%	Trejaut et al. 2014
		Austronesian	Amis	Taiwan, China	39	59%	Trejaut et al. 2014
		Austronesian	Siraya (Pingtun)	Taiwan, China	85	59%	Trejaut et al. 2014
		Austronesian	Pazeh	Taiwan, China	21	57%	Li et al. 2008
		Austronesian	Saisat	Taiwan, China	11	55%	Li et al. 2008
		Austronesian	Siraya (Tainan)	Taiwan, China	30	47%	Trejaut et al. 2014
		Austronesian	Kategalan	Taiwan, China	30	37%	Trejaut et al. 2014
		Austronesian	Yunlin	Taiwan, China	21	33%	Trejaut et al. 2014
		Austronesian	Papura	Taiwan, China	18	17%	Trejaut et al. 2014
		Austronesian	Siraya (Kaohsiung)	Taiwan, China	40	15%	Trejaut et al. 2014
	Hlai						
		Tai-Kadai	Jiamao	Hainan, China	27	52%	Li et al. 2008
		Tai-Kadai	Hlai	Hainan, China	34	32%	Li et al. 2008
		Tai-Kadai	Li (Hlai)	Southern China	34	26%	Xue et al. 2006
	Hmongic						
		Hmong-Mien	Bunu (Southern)	Southern China	20	20%	Cai et al. 2011
		Hmong-Mien	Miao (Guizhou)	Southern China	49	12%	Cai et al. 2011
		Hmong-Mien	Hmong	Hunan Province, Central China	95	8%	Xia et al. 2019
		Hmong-Mien	Pathen	Vietnam	36	8%	Macholdt et al. 2020
		Hmong-Mien	Miao (Hunan)	Southern China	100	7%	Cai et al. 2011
		Hmong-Mien	Miao	China	58	7%	Karafet et al. 2010
		Hmong-Mien	Miao (Yunnan)	Southern China	49	6%	Cai et al. 2011
		Hmong-Mien	Hmong	Vietnam	41	5%	Macholdt et al. 2020

Region	Language Group	Language Family	Population	Location	Sample Size	O1a-M119	Reference
		Hmong-Mien	Shē	Hunan Province, Central China	4	50%	Xia et al. 2019
	Kam-Tai	Hmong-Mien	She	Southeastern China	34	15%	Xue et al. 2006
		Tai-Kadai	Mulam	Guangxi, China	51	37%	Deng et al. 2013
		Tai-Kadai	Then	Guizhou, China	30	33%	Li et al. 2008
		Tai-Kadai	Mulam	Guangxi, China	40	30%	Li et al. 2008
		Tai-Kadai	Lingao	Hainan, China	30	27%	Li et al. 2008
		Tai-Kadai	Phuan	Central Thailand	18	23%	Kutanan et al. 2019
		Tai-Kadai	Lue	North Thailand	13	23%	Kutanan et al. 2019
		Tai-Kadai	Phutai	Northeast Thailand	18	22%	Kutanan et al. 2019
		Tai-Kadai	Kam	Hunan Province, Central China	71	21%	Xia et al. 2019
		Tai-Kadai	Zhuang	Guangxi, China	63	19%	Zhao et al. 2010
		Tai-Kadai	Sui (Shui)	Guangxi, China	50	18%	Li et al. 2008
		Tai-Kadai	Shan	North Thailand	20	15%	Kutanan et al. 2020
		Tai-Kadai	Central Thai	Central Thailand	19	15%	Kutanan et al. 2019
		Tai-Kadai	Biao	Guangdong, China	34	15%	Li et al. 2008
		Tai-Kadai	Laolsan	Northeast Thailand	18	12%	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	18	12%	Kutanan et al. 2019
		Tai-Kadai	Black Thai	Northeast Thailand	18	12%	Kutanan et al. 2019
		Tai-Kadai	Laolsan	Northeast Thailand	17	12%	Kutanan et al. 2019
		Tai-Kadai	Thai	Northern Thailand	17	12%	He et al. 2012
		Tai-Kadai	Yong	Northern Thailand	26	12%	Brunelli et al. 2017
		Tai-Kadai	Zhuang	Guangxi, China	39	10%	
		Tai-Kadai	Lue	Northern Thailand	91	10%	Brunelli et al. 2017

Region	Language Group	Language Family	Population	Location	Sample Size	O1a-M119	Reference
		Tai-Kadai	Cao Miao	Guangxi, China	33	9%	Li et al. 2008
		Tai-Kadai	Tay	Vietnam	47	8%	Macholdt et al. 2020
		Tai-Kadai	Yuan	Central Thailand	12	8%	Kutanan et al. 2019
		Tai-Kadai	Dai	Yunnan Province, SW China	251	7%	Xu et al. 2019
		Tai-Kadai	Central Thai	Western Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Shan	North Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	18	6%	Kutanan et al. 2019
		Tai-Kadai	Lue	North Thailand	17	6%	Kutanan et al. 2019
		Tai-Kadai	Khon Mueang	North Thailand	17	6%	Kutanan et al. 2019
		Tai-Kadai	Colao	Vietnam	34	6%	Macholdt et al. 2020
		Tai-Kadai	Thai	Thailand	50	6%	Hong et al. 2006
		Tai-Kadai	Laotian	Laos	20	5%	Kutanan et al. 2019
		Tai-Kadai	Central Thai	Central Thailand	19	5%	Kutanan et al. 2019
		Tai-Kadai	Laotian	Laos	20	5%	Kutanan et al. 2019
		Tai-Kadai	Shan	Northern Thailand	20	5%	Brunelli et al. 2017
	Karenic						
		Tibeto-Burman	Karen (Skaw)	North Thailand	12	8%	Kutanan et al. 2019
	Kra						
		Tai-Kadai	Blue Gelao	Guangxi, China	30	60%	Li et al. 2008
		Tai-Kadai	Gelong	Hainan, China	79	57%	Li et al. 2010
		Tai-Kadai	Cun	Hainan, China	31	39%	Li et al. 2008
		Tai-Kadai	Red Gelao	Guizhou, China	31	23%	Li et al. 2008
		Tai-Kadai	White Gelao	Yunnan, China	14	14%	Li et al. 2008
		Tai-Kadai	Mollao	Guizhou, China	30	7%	Li et al. 2008

Region	Language Group	Language Family	Population	Location	Sample Size	O1a-M119	Reference
		Tai-Kadai	Lachi	Yunnan, China	30	7%	Li et al. 2008
	Malayo-Polynesian						
		Austronesian	Cham	Vietnam	11	91%	Li et al. 2008
		Austronesian	Yami	Taiwan, China	30	83%	Trejaut et al. 2014
		Austronesian	Utsat	Hainan Island, China	72	61%	Li et al. 2013
		Austronesian	Tsat	Hainan, China	31	58%	Li et al. 2008
		Austronesian	Indonesians	Indonesia	36	8%	Hong et al. 2006
		Austronesian	Malaysians	Malaysia	32	6%	Karafet et al. 2010
		Austronesian	Cham	Vietnam	59	5%	He et al. 2012
	Mienic						
		Hmong-Mien	Mien	Hunan Province, Central China	33	15%	Xia et al. 2019
		Hmong-Mien	Kimmun (Lowland)	Southern China	41	12%	Cai et al. 2011
		Hmong-Mien	Mien (Straggler)	Southern China	20	10%	Cai et al. 2011
		Hmong-Mien	Dao	Vietnam	43	10%	Macholdt et al. 2020
		Hmong-Mien	Mien (Northern)	Southern China	33	9%	Cai et al. 2011
		Hmong-Mien	Mien (Southern)	Southern China	31	6%	Cai et al. 2011
		Hmong-Mien	IuMien	North Thailand	17	6%	Kutanan et al. 2020
		Hmong-Mien	Yao (Liannan)	Southern China	35	6%	Xue et al. 2006
	Mongolic						
		Mongolic	Monguor (Tu)	Northwest China	50	6%	Shou et al. 2010
		Mongolic	Daur	Northeastern China	39	5%	Xue et al. 2006
	Mon-Khmer						
		Austro-Asiatic	Palyu	Southern China	30	20%	Cai et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	O1a-M119	Reference
		Austro-Asiatic	Htin (Pray)	North Thailand	12	17%	Kutanan et al. 2019
		Austro-Asiatic	Mon	North Thailand	12	16%	Kutanan et al. 2019
		Austro-Asiatic	Vietnamese	Vietnam	48	15%	Kim et al. 2011
		Austro-Asiatic	Bolyu	Guangxi, China	30	13%	Li et al. 2008
		Austro-Asiatic	Mon	Northeast Thailand	19	11%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Central Thailand	14	7%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Western Thailand	15	7%	Kutanan et al. 2019
		Austro-Asiatic	Mon	Central Thailand	14	7%	Kutanan et al. 2019
		Austro-Asiatic	Katu	Laos	45	7%	Cai et al. 2011
		Austro-Asiatic	Vietnamese	Vietnam	76	7%	He et al. 2012
		Austro-Asiatic	Vietnamese	Vietnam	70	6%	Karafet et al. 2010
		Austro-Asiatic	Mon	Northern Thailand	18	6%	Brunelli et al. 2017
		Austro-Asiatic	Suay	Northeast Thailand	20	5%	Kutanan et al. 2019
	Ngwi-Burmese						
		Tibeto-Burman	Yi (Yizu)	Yunnan Province, SW China	283	8%	Guo et al. 2019
		Tibeto-Burman	Hanhi	Vietnam	33	6%	Macholdt et al. 2020
		Tibeto-Burman	Bamar	Myanmar	59	5%	Peng et al. 2014
	Northeastern Tibeto-Burman						
		Tibeto-Burman	Horpa (Daofu)	Sichuan, China	16	25%	Wang et al. 2014
		Tibeto-Burman	Qiang	Central China	33	15%	Xue et al. 2006
		Tibeto-Burman	Southern Tǔjiā	Hunan Province, Central China	12	8%	Xia et al. 2019
		Tibeto-Burman	Tujia	China	49	8%	Karafet et al. 2010

Region	Language Group	Language Family	Population	Location	Sample Size	O1a-M119	Reference
Indian Ocean	Tai-Kadai	Tibeto-Burman	Bai	Yunnan Province, SW China	278	8%	Guo et al. 2019
		Tai-Kadai	Lachi	Vietnam	36	47%	Macholdt et al. 2020
	Tungusic	Tungusic	Xibe	Northwest China	32	13%	Shou et al. 2010
		Tungusic	Evenks	Northern China	26	8%	Xue et al. 2006
		Tungusic	Xibe	Northwestern China	41	7%	Xue et al. 2006
	Western Tibeto-Burman	Tibeto-Burman	Khams (Yajiang)	Sichuan, China	47	21%	Wang et al. 2014
		Tibeto-Burman	Khams (Xinlong)	Sichuan, China	46	9%	Wang et al. 2014
	Malayo-Polynesian	Austronesian	Highland Malagasy	Madagascar	133	25%	Tofanelli et al. 2009
		Austronesian	Antemoro (Antalaotra)	Madagascar	43	16%	Capredon et al. 2013
		Austronesian	Antemoro (Ampanabaka)	Madagascar	46	15%	Capredon et al. 2013
Austronesian		Malagasy Cotiers	Madagascar	59	12%	Tofanelli et al. 2009	
Isolate		Isolate	Sulka	PNG, East New Britain	33	6%	Scheinfeldt et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	O1a-M119	Reference
Malayo-Polynesian							
		Austronesian	Nias	Nias, Indonesia	60	100%	Karafet et al. 2010
		Austronesian	Mentawai Islanders	Mentawai, Indonesia	74	86%	Karafet et al. 2010
		Austronesian	Palembang	Indonesia	11	64%	Li et al. 2008
		Austronesian	Filipinos	Philippines	210	63%	Delfin et al. 2011
		Austronesian	Kurti	Admiralty Islands	18	50%	Kayser et al. 2008
		Austronesian	Makassar	Indonesia	13	46%	Li et al. 2008
		Austronesian	Filipinos	Philippines	146	42%	Trejaut et al. 2014
		Austronesian	Woodlark Islanders	Papua New Guinea	13	38%	Oven et al. 2014
		Austronesian	Seimat-Wuvulu	Admiralty Islands	11	36%	Kayser et al. 2008
		Austronesian	Bugis	Indonesia	15	33%	Li et al. 2008
		Austronesian	Tengger	Indonesia	12	33%	Li et al. 2008
		Austronesian	Bangka	Indonesia	13	31%	Li et al. 2008
		Austronesian	Trobriand Islanders	Papua New Guinea	60	28%	Oven et al. 2014
		Austronesian	Banjar	Indonesia	15	27%	Li et al. 2008
		Austronesian	Teop	Bougainville	18	22%	Scheinfeldt et al. 2006
		Austronesian	Minahasa	Indonesia	14	21%	Li et al. 2008
		Austronesian	Balinese	Bali	641	21%	Karafet et al. 2010
		Austronesian	Sulawesi	Sulawesi, Indonesia	54	20%	Karafet et al. 2010
		Austronesian	Buka	Bougainville	10	20%	Scheinfeldt et al. 2006
		Austronesian	Dayak	Indonesia	15	20%	Li et al. 2008
		Austronesian	Torajan	Indonesia	15	20%	Li et al. 2008
		Austronesian	Kaili	Indonesia	15	20%	Li et al. 2008

Region	Language Group	Language Family	Population	Location	Sample Size	O1a-M119	Reference
		Austronesian	Kateri	West Timor	50	20%	Tumonggor et al. 2014
		Austronesian	Titan	Admiralty Islands	21	19%	Kayser et al. 2008
		Austronesian	Nyindrou	Admiralty Islands	17	18%	Kayser et al. 2008
		Austronesian	Kakaniuk	West Timor	47	17%	Tumonggor et al. 2014
		Austronesian	Filipinos	Philippines	69	16%	Hong et al. 2006
		Austronesian	Nali	Admiralty Islands	19	16%	Kayser et al. 2008
		Austronesian	East Timor	Eastern Indonesia	33	15%	Mona et al. 2009, Mona et al. 2011
		Austronesian	Ma'anyan	Borneo	159	15%	Kusuma et al. 2015
		Austronesian	Javanese	Java, Indonesia	61	15%	Karafet et al. 2010
		Austronesian	Fatuketi	West Timor	35	14%	Tumonggor et al. 2014
		Austronesian	Laran	West Timor	50	14%	Tumonggor et al. 2014
		Austronesian	Solor	Eastern Indonesia	43	14%	Mona et al. 2009, Mona et al. 2011
		Austronesian	Sumatrans	Sumatra, Indonesia	38	13%	Karafet et al. 2010
		Austronesian	Sumbanese	Sumba, Indonesia	350	13%	Karafet et al. 2010
		Austronesian	Umaklaran	West Timor	41	12%	Tumonggor et al. 2014
		Austronesian	Besikama	West Timor	42	12%	Tumonggor et al. 2014
		Austronesian	Saposa	Bougainville	26	12%	Scheinfeldt et al. 2006
		Austronesian	Filipinos	Philippines	48	10%	Karafet et al. 2010
		Austronesian	Andra-Hus	Admiralty Islands	20	10%	Kayser et al. 2008
		Austronesian	Flores Islanders	Flores, Indonesia	394	10%	Karafet et al. 2010
		Austronesian	Tigak	PNG, New Ireland	21	10%	Scheinfeldt et al. 2006
		Austronesian	Mamusi	PNG, West New Britain	43	9%	Scheinfeldt et al. 2006
		Austronesian	Bornean	Borneo, Indonesia	86	9%	Karafet et al. 2010
		Austronesian	Mengen	PNG, West New Britain	23	9%	Scheinfeldt et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	O1a-M119	Reference
		Austronesian	Lawalu	West Timor	49	8%	Tumonggor et al. 2014
		Austronesian	Notsi	PNG, New Ireland	14	7%	Scheinfeldt et al. 2006
		Austronesian	Misima Islanders	Papua New Guinea	14	7%	Oven et al. 2014
		Austronesian	Ere-Kele	Admiralty Islands	14	7%	Kayser et al. 2008
		Austronesian	Flores	Eastern Indonesia	71	7%	Mona et al. 2009, Mona et al. 2011
		Austronesian	Kletek Suai	West Timor	15	7%	Tumonggor et al. 2014
		Austronesian	Kletek Wefatuk	West Timor	15	7%	Tumonggor et al. 2014
		Austronesian	Sasak	Indonesia	15	7%	Li et al. 2008
		Austronesian	Moluccans	Moluccas, Indonesia	30	7%	Karafet et al. 2010
		Austronesian	Raimanawe	West Timor	50	6%	Tumonggor et al. 2014
		Austronesian	Nalik	PNG, New Ireland	17	6%	Scheinfeldt et al. 2006
	Trans-New Guinea						
		Trans-New Guinea	Tialai	West Timor	24	13%	Tumonggor et al. 2014
		Trans-New Guinea	Pantar	Eastern Indonesia	28	7%	Mona et al. 2009, Mona et al. 2011
	Yele-West New Britain						
		Yele-West New Britain	Rossel Islanders	Papua New Guinea	80	30%	Oven et al. 2014
Oceania							
	Creole						
		Creole	Ni-Vanuatu	Vanuatu	44	11%	Karafet et al. 2010
	Malayo-Polynesian						
		Austronesian	Kolombangara	Solomon Islands	17	59%	Delfin et al. 2012
		Austronesian	Makira	Solomon Islands	39	13%	Delfin et al. 2012

Region	Language Group	Language Family	Population	Location	Sample Size	O1a-M119	Reference
		Austronesian	Gela	Solomon Islands	47	13%	Delfin et al. 2012
		Austronesian	Guadalcanal	Solomon Islands	53	11%	Delfin et al. 2012
		Austronesian	Samoans	Samoa	12	8%	Karafet et al. 2010
		Austronesian	Tongans	Tonga	12	8%	Karafet et al. 2010
		Austronesian	Leeward Society Islanders	Leeward Society Islands	72	7%	Hudjashov et al. 2018
		Austronesian	Isabel	Solomon Islands	53	6%	Delfin et al. 2012
		Austronesian	Fijians	Polynesia	107	6%	Kayser et al. 2006

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Supplementary Tables for Chapter Seventeen and Haplogroup Q-M242



Supplementary Table 17.1. Distribution of Haplogroup Q-M242 in Eurasia.

Region	Language Family	Population	Location	Sample Size	Q-M242	Reference
Baltic						
	Indo-European					
		Latvians	Latvia	113	0.9%	Lappalainen et al. 2008
	Uralic					
		Estonians	Estonia	118	0.8%	Lappalainen et al. 2008
Caucasus						
	Indo-European					
		Tat	Daghestan	24	12.5%	Karafet et al. 2016
	Kabardians					
		Kabardians	Russia	140	0.7%	Yunubayev et al. 2012
		Abkhaz	Georgia	162	0.6%	Yunubayev et al. 2012
	North Caucasian					
		Chechens	Russia	165	4.8%	Yunubayev et al. 2012
		Abazins	Caucasus	88	3.4%	Yunubayev et al. 2012
		Cherkessians	Russia	126	0.8%	Yunubayev et al. 2012
	Turkic					
		Balkars	Russia	135	3.7%	Yunubayev et al. 2012
Central Asia						
	Indo-European					
		Pashtuns	Afghanistan	49	18.4%	Haber et al. 2012
		Hazara	Afghanistan	60	6.7%	Haber et al. 2012
		Pathans	Afghanistan	190	3.2%	Lacau et al. 2012
		Hazara	Afghanistan	77	2.6%	Di Cristofaro 2013

Region	Language Family	Population	Location	Sample Size	Q-M242	Reference
		Pashtuns	Afghanistan	87	2.3%	Di Cristofaro 2013
	Sino-Tibetan					
		Dungan	Uzbekistan	31	9.7%	Zhabagin et al. 2017
	Turkic					
		Turkmen (Shumanay)	Uzbekistan	21	81.0%	Zhabagin et al. 2017
		Turkmen (Xo'jayli)	Uzbekistan	62	71.0%	Zhabagin et al. 2017
		Turkmen	Afghanistan	74	33.8%	Di Cristofaro 2013
		Uzbek (Tashkent)	Uzbekistan	52	17.3%	Zhabagin et al. 2017
		Uzbek (Xorezm)	Uzbekistan	98	11.2%	Zhabagin et al. 2017
		Kazakh (Kazaly)	Kazakhstan	81	9.9%	Zhabagin et al. 2017
		Uzbek	Afghanistan	127	8.7%	Di Cristofaro 2013
		Karakalpak	Uzbekistan	100	6.0%	Zhabagin et al. 2017
		Uzbek (Fergana)	Uzbekistan	67	4.5%	Zhabagin et al. 2017
		Kazakh (Shymkent)	Kazakhstan	55	3.6%	Zhabagin et al. 2017
		Tajiks	Afghanistan	142	3.5%	Di Cristofaro 2013
		Tajiks	Afghanistan	56	1.8%	Haber et al. 2012
		Kyrgyz	Kyrgyzstan	132	0.8%	Di Cristofaro 2013
East Asia						
	Austro-Asiatic					
		Vietnamese	Vietnam	71	7.0%	Karafet et al. 2015
		Hui	Ningxia, China	62	3.2%	Zhong et al. 2011
		Gin (Jing)	Guangxi, China	45	2.2%	Zhong et al. 2011
	Hmong-Mien					
		Miao	Guizhou, China	45	2.2%	Zhong et al. 2011
		Yao	Guangxi, China	55	1.8%	Zhong et al. 2011

Region	Language Family	Population	Location	Sample Size	Q-M242	Reference
	Indo-European					
		Russ	Northwestern China	19	5.3%	Shou et al. 2010
	Koreanic					
		Koreans	Korea	706	1.8%	Park et al. 2012
	Mongolic					
		Mongols	Western Mongolia	22	100.0%	Battaglia et al. 2013
		Dongxiang	Northwestern China	35	22.9%	Shou et al. 2010
		Mongols	Mongolia	160	6.3%	Di Cristofaro 2013
		Mongols	Inner Mongolia	22	4.5%	Zhong et al. 2011
		Mongols	Northwestern China	50	2.0%	Shou et al. 2010
		Monguor (Tu)	Northwestern China	50	2.0%	Shou et al. 2010
	Sino-Tibetan					
		Bamar	Ayeyarwady region, Myanmar	11	18.2%	Peng et al. 2014
		Han	Jiangsu, China	39	7.7%	Zhong et al. 2011
		Han	Anhui, China	52	7.7%	Zhong et al. 2011
		Han	Chongqing, China	43	7.0%	Zhong et al. 2011
		Han	Gansu, China	221	5.4%	Zhong et al. 2011
		Han	Hunan, China	61	4.9%	Zhong et al. 2011
		Han	Henan, China	66	4.5%	Zhong et al. 2011
		Khams (Xinlong)	Sichuan, China	46	4.3%	Wang et al. 2014
		Han	Jilin, China	84	3.6%	Zhong et al. 2011
		Han	Shanxi, China	112	3.6%	Zhong et al. 2011
		Hani	Yunnan, China	60	3.3%	Zhong et al. 2011
		Tujia	Guizhou, China	33	3.0%	Zhong et al. 2011

Region	Language Family	Population	Location	Sample Size	Q-M242	Reference
		Han	Liaoning, China	40	2.5%	Zhong et al. 2011
		Han	Zhejiang, China	85	2.4%	Zhong et al. 2011
		Han	Yunnan, China	133	2.3%	Zhong et al. 2011
		Han	Shandong	115	1.7%	Zhong et al. 2011
		Han	Heilongjiang, China	124	1.6%	Zhong et al. 2011
		Han	Sichuan, China	62	1.6%	Zhong et al. 2011
		Han	Guizhou, China	231	1.3%	Zhong et al. 2011
		Tibetans	Xizang, China	222	0.5%	Zhong et al. 2011
		Bamar	Bago region, Myanmar	14	0.0%	Peng et al. 2014
	Tai-Kadai					
		Dong	Hunan, China	45	2.2%	Zhong et al. 2011
	Tungusic					
		Manchu	Heilongjiang, China	24	4.2%	Zhong et al. 2011
		Manchu	Liaoning, China	109	0.9%	Zhong et al. 2011
	Turkic					
		Chinese Tuva	Xinjiang, China	150	25.3%	Chen et al. 2011
		Uyghurs	Xingjiang, China	187	5.9%	Zhong et al. 2011
		Keriyans	Xinjiang, China	70	5.7%	Chen et al. 2014
		Uyghur	Northwestern China	50	4.0%	Shou et al. 2010
		Kyrgyz	Northwestern China	45	2.2%	Shou et al. 2010
Eastern Europe						
	Indo-European					
		Moldavians	Moldolva	125	0.8%	Varzari et al. 2013
		Bulgarians	Bulgaria	808	0.5%	Karachanak et al. 2013

Region	Language Family	Population	Location	Sample Size	Q-M242	Reference
		Belarusians	Belarus	565	0.2%	Kushniarevich et al. 2013
Mediterranean						
	Indo-European					
		Sicilians	Sicily	236	2.5%	Di Gaetano et al. 2009
		Cretans	Crete	168	1.2%	Martinez et al. 2007
Middle East						
	Afro-Asiatic					
		Marsh Arabs	Iraq	143	2.8%	Al Zahery et al. 2011
		Lebanese	Lebanon	914	2.0%	Zalloua et al. 2008
		Iraqis	Iraq	154	1.9%	Al Zahery et al. 2011
		Lebanese	Lebanon	125	1.6%	Haber et al. 2016
	Indo-European					
		Iranians	Iran	150	4.0%	Regueiro et al. 2006
		Iranians	Iran	186	2.7%	Di Cristofaro 2013
		Armenians	Salmast, Iran	199	1.5%	Hovhannisyanyan et al. 2014
	Turkic					
		Turks	Turkey	523	1.9%	Cinnioglu et al. 2004
Northern Eurasia						
	Chukotko-Kamchatkan					
		Koryaks	Kamchatka Peninsula	5	100.0%	Battaglia et al. 2013
		Koryaks	Sakha Republic	12	16.7%	Pakendorf et al. 2007
		Chukchi	Chukotka	24	12.5%	Lell et al. 2002
		Koryaks	Siberia, Russia	39	10.3%	Malyarchuk et al. 2011
	Eskimo-Aleut					

Region	Language Family	Population	Location	Sample Size	Q-M242	Reference
		Yupik	Siberia, Russia	32	28.1%	Regueiro et al. 2013
		Yupik	Chukotka	33	21.2%	Lell et al. 2002
	Mongolic					
		Mongolians	Tuva Republic	146	16.4%	Regueiro et al. 2013
	Tungusic					
		Even	Siberia, Russia	63	3.2%	Malyarchuk et al. 2011
	Turkic					
		Todjins	Siberia, Russia	26	38.5%	Malyarchuk et al. 2011
		Tuva	Siberia, Russia	108	38.0%	Malyarchuk et al. 2011
		Altaians	Siberia, Russia	89	25.8%	Malyarchuk et al. 2011
		Altaians	Altai Republic	189	24.3%	Dulik et al. 2012a
		Altaians	Siberia, Russia	98	17.3%	Tambets et al. 2004
		Tuvans	Sakha Republic	55	16.4%	Pakendorf et al. 2006
		Altaians	Altai Republic, Russia	146	13.7%	Kharkov et al. 2007
		Tuvans	Tuva Republic, Russia	419	13.1%	Kharkov et al. 2013
		Tatars	Siberia, Russia	776	11.0%	Agdzhoyan et al. 2016
		Altaians	Altai Republic, Russia	59	8.5%	Gubina et al. 2013
		Khakas	Siberia, Russia	64	6.3%	Malyarchuk et al. 2011
		Tuvans	Tuva Republic, Russia	102	4.9%	Gubina et al. 2013
		Khakas	Republic of Khakassia	251	4.8%	Kharkov et al. 2011
		Khakas	Republic of Khakassia, Russia	176	4.0%	Gubina et al. 2013

Region	Language Family	Population	Location	Sample Size	Q-M242	Reference
		Yakuts	Sakha Republic	184	0.5%	Pakendorf et al. 2006
	Uralic					
		Selkups	Siberia, Russia	131	66.4%	Tambets et al. 2004
		Selkup	Krasnoyarsk Krai	7	57.1%	Flegontov et al. 2016b
		Enets	Krasnoyarsk Krai	4	25.0%	Flegontov et al. 2016b
		Nenets	Siberia, Russia	148	1.4%	Tambets et al. 2004
	Yeniseian					
		Kets	Siberia, Russia	48	93.8%	Tambets et al. 2004
		Kets	Krasnoyarsk Krai	20	90.0%	Flegontov et al. 2016b
	Yukaghir					
		Yukaghir	Sakha Republic	13	30.8%	Pakendorf et al. 2006
Scandinavia	Uralic					
		Finns	Finland	536	0.2%	Lappalainen et al. 2006
South Asia	Dravidian					
		Gonds	Madhya Pradesh	64	6.3%	Sharma et al. 2009
	Indo-European					
		Pathans	Pakistan	20	10.0%	Di Cristofaro 2013
		Hazara	Pakistan	25	8.0%	Di Cristofaro 2013
		Brahmins	Uttar Pradesh	31	6.5%	Sharma et al. 2009
		Pandits	Kashmir	51	5.9%	Sharma et al. 2009
		Gamit	Gujarat, India	18	5.6%	Khurana et al. 2014
		Brahmins	Bihar	38	5.3%	Sharma et al. 2009
		Pathan	Pakistan	96	5.2%	Firasat et al. 2007

Region	Language Family	Population	Location	Sample Size	Q-M242	Reference
		Pathans	Pakistan	270	5.2%	Lee et al. 2014
		Brahmins	Madhya Pradesh	42	4.8%	Sharma et al. 2009
		Sindhi	Pakistan	21	4.8%	Di Cristofaro 2013
		Gujars	Kashmir	49	2.0%	Sharma et al. 2009
		Saharia	Madhya Pradesh	57	1.8%	Sharma et al. 2009
		Tharu	India and Nepal	240	1.7%	Chaubey et al. 2014
	Isolate					
		Burusho	Pakistan	92	2.2%	Firasat et al. 2007
Western Europe	Indo-European					
		Flemish	Flanders Region, Netherlands and Belgium	773	0.4%	Larmuseau et al. 2014

Supplementary Table 17.2. Indigenous Languages of the Western Hemisphere.

Name	Classification	Languages
Otomanguean	Family	177
Tupian	Family	76
Uto-Aztecan	Family	61
Maipurean	Family	60
Quechuan	Family	45
Eyak-Athabaskan	Family	44
Algic	Family	42
Cariban	Family	32
Mayan	Family	31
Panoan	Family	27
Salish	Family	26
Tucanoan	Family	25
Chibchan	Family	20
Mixe-Zoquean	Family	17
Jean	Family	16
Siouan-Catawban	Family	14
Totonacan	Family	12
Eskimo-Aleut	Family	11
Cochimí-Yuman	Family	9
Iroquoian	Family	9
Chocoan	Family	8
Miwok-Costanoan	Family	8
Paezan	Family	8
Matacoan	Family	7
Pomoan	Family	7
Puinavean	Family	7
Witotoan	Family	7
Chumashan	Family	6
Mascoyan	Family	6
Muskogean	Family	6
Nambiquaran	Family	6
Tacanan	Family	6
Wakashan	Family	6
Arauan	Family	5
Caddoan	Family	5

Name	Classification	Languages
Chapacuran	Family	5
Guajiboan	Family	5
Guaykuruan	Family	5
Kiowa-Tanoan	Family	5
Misumalpan	Family	5
Sahaptian	Family	5
Zaparoan	Family	5
Barbacoan	Family	4
Huavean	Family	4
Jivaroan	Family	4
Maiduan	Family	4
Yanomaman	Family	4
Aymaran	Family	3
Bororoan	Family	3
Sálivan	Family	3
Tsimshian	Family	3
Wintuan	Family	3
Cahuapanan	Family	2
Chinookan	Family	2
Chipaya-Uru	Family	2
Cholonan	Family	2
Chon	Family	2
Haida	Family	2
Harákmbut	Family	2
Jabutian	Family	2
Katukinan	Family	2
Keresan	Family	2
Mapudungu	Family	2
Maxakalian	Family	2
Palaihnihan	Family	2
Purian	Family	2
Tarascan	Family	2
Tequistlatecan	Family	2
Yaguan	Family	2
Yukian	Family	2
Zamucoan	Family	2

Name	Classification	Languages
Botocudoan	Family	1
Chimakuan	Family	1
Coosan	Family	1
Jicaquean	Family	1
Kamakanan	Family	1
Karajá	Family	1
Kaweskarán	Family	1
Lencan	Family	1
Mosetenan	Family	1
Muran	Family	1
Takelman	Family	1
Tiniguan	Family	1
Yokutsan	Family	1
Aikanã	Isolate	1
Andoque	Isolate	1
Arutani	Isolate	1
Aushiri	Isolate	1
Callawalla	Isolate	1
Camsá	Isolate	1
Candoshi-Shapra	Isolate	1
Canichana	Isolate	1
Cayubaba	Isolate	1
Chimariko	Isolate	1
Chiquitano	Isolate	1
Chitimacha	Isolate	1
Cofán	Isolate	1
Esselen	Isolate	1
Guató	Isolate	1
Iatê	Isolate	1
Irántxe	Isolate	1
Itonama	Isolate	1
Kanoé	Isolate	1
Karirí-Xocó	Isolate	1
Karok	Isolate	1
Klamath-Modoc	Isolate	1
Kunza	Isolate	1

Name	Classification	Languages
Kutenai	Isolate	1
Kwaza	Isolate	1
Leco	Isolate	1
Molale	Isolate	1
Movima	Isolate	1
Muniche	Isolate	1
Natchez	Isolate	1
Ofayé	Isolate	1
Omurano	Isolate	1
Oti	Isolate	1
Pankararú	Isolate	1
Puelche	Isolate	1
Rikbaktsa	Isolate	1
Salinan	Isolate	1
Sapé	Isolate	1
Seri	Isolate	1
Shasta	Isolate	1
Siuslaw	Isolate	1
Taushiro	Isolate	1
Ticuna	Isolate	1
Tonkawa	Isolate	1
Trumai	Isolate	1
Tunica	Isolate	1
Tuxá	Isolate	1
Uamué	Isolate	1
Urarina	Isolate	1
Vilela	Isolate	1
Waorani	Isolate	1
Warao	Isolate	1
Washo	Isolate	1
Xinca	Isolate	1
Xukurú	Isolate	1
Yámana	Isolate	1
Yuchi	Isolate	1
Yuracare	Isolate	1
Yuwana	Isolate	1

Name	Classification	Languages
Zuni	Isolate	1
Abishira	Unclassified	1
Agavotaguerra	Unclassified	1
Aguano	Unclassified	1
Arára, Mato Grosso	Unclassified	1
Cagua	Unclassified	1
Carabayo	Unclassified	1
Chipiajes	Unclassified	1
Coxima	Unclassified	1
Himarimã	Unclassified	1
Iapama	Unclassified	1
Kaimbé	Unclassified	1
Kamba	Unclassified	1
Kambiwá	Unclassified	1
Kapinawá	Unclassified	1
Karahawyana	Unclassified	1
Korubo	Unclassified	1
Mangue	Unclassified	1
Natagaimas	Unclassified	1
Pankararé	Unclassified	1
Pijao	Unclassified	1
Pumé	Unclassified	1
Quinqui	Unclassified	1
Shanenawa	Unclassified	1
Tapeba	Unclassified	1
Tingui-Boto	Unclassified	1
Tremembé	Unclassified	1
Truká	Unclassified	1
Wakoná	Unclassified	1
Wasu	Unclassified	1
Yarí	Unclassified	1

1063 Total Languages

Data Source: *Ethnologue* 2016.

Supplementary Table 17.3. Contemporary Native Americans and Q1b-M3.

Region	Language Family	Population	Location	Native Samples	Q1b-M3	Reference
Central America						
	Chibchan					
		Abrojo-Guaymi	Costa Rica	13	100.0%	Melton et al. 2013
		Teribe	Panama	12	100.0%	Melton et al. 2013
		Kuna	Panama	16	100.0%	Melton et al. 2013
		Cabecar	Panama	23	100.0%	Melton et al. 2013
		Bribri	Panama	13	100.0%	Melton et al. 2013
		Maleku	Costa Rica	6	100.0%	Melton et al. 2013
		Huetar	Costa Rica	11	100.0%	Melton et al. 2013
		Rama	Nicaragua	10	100.0%	Melton et al. 2013
		Bribri and Cabecar	Central America	11	100.0%	Lell et al. 2002
		Guaymi (Ngäbe, Ngöbe)	Central America	8	100.0%	Lell et al. 2002
		Boruca	Central America	16	100.0%	Lell et al. 2002
		Guaymi (Ngäbe, Ngöbe)	Panama	29	79.3%	Melton et al. 2013
	Chocoan					
		Emberá	Panama	30	76.7%	Melton et al. 2013
	Mayan					
		Tzotzil	Chiapas, Mexico	4	100.0%	Rangel-Villalobos et al. 2008
		Mayans	Mexico and Guatamala	288	84.4%	Perez-Benedico et al. 2016
		Mayans	Yucatan, Mexico	56	76.8%	Regueiro et al. 2013
		Mayans	Guatamala	39	74.4%	Regueiro et al. 2013

Region	Language Family	Population	Location	Native Samples	Q1b-M3	Reference
	Mixe-Zoquean					
		Mixe	Mexico	7	100.0%	Kemp et al. 2010
	Otomanguean					
		Zapotec	Mexico	6	100.0%	Kemp et al. 2010
		Mixtec	Mexico	20	100.0%	Kemp et al. 2010
	Tarascan					
		Purépecha	Michoacan, Mexico	15	100.0%	Rangel-Villalobos et al. 2008
	Unclassified					
		Chorotega	Costa Rica	11	72.7%	Melton et al. 2013
	Uto-Aztecan					
		Tarahumara	Chihuahua, Mexico	11	100.0%	Rangel-Villalobos et al. 2008
		Huichol	Jalisco and Nayarit, Mexico	34	100.0%	Rangel-Villalobos et al. 2008
		Nahua	South of Puebla, Mexico	27	100.0%	Rangel-Villalobos et al. 2008
		Huichol	Mexico	12	100.0%	Kemp et al. 2010
		Cora	Mexico	43	95.3%	Kemp et al. 2010
		Nahua-Cuetzalan	Mexico	10	90.0%	Kemp et al. 2010
		Tarahumara	Mexico	19	73.7%	Kemp et al. 2010
		Nahua-Atocpan	Mexico	6	50.0%	Kemp et al. 2010
North America						
	Algic					
		Turtle Mountain Chippewa	United States	3	100.0%	Bolnick et al. 2006
		Chippewa	United States	8	37.5%	Bolnick et al. 2006
		Chippewa	United States	8	25.0%	Bolnick et al. 2006

Region	Language Family	Population	Location	Native Samples	Q1b-M3	Reference
	Eskimo-Aleut	Chippewa	Canada	18	16.7%	Bortolini et al. 2003
		Aleuts	Aleutian Islands	21	57.1%	Zlojutro et al. 2009
		Greenlanders	Greenland	122	42.6%	Olofsson et al. 2015
		Eskimos	Greenland	29	20.7%	Bosch et al. 2003
		Eskimos	Canada	32	18.8%	Dulik et al. 2012b
	Eyak-Athabaskan	Navajo	North America	19	100.0%	Lell et al. 2002
		Tlingit	Southeastern Alaska, USA	11	72.7%	Schurr et al. 2012
		Dogrib	Canada	30	50.0%	Dulik et al. 2012b
		Gwich'in (Kutchin)	Canada	17	35.3%	Dulik et al. 2012b
		Iroquoian	Stillwell Cherokee	United States	15	73.3%
	Red Cross Cherokee		United States	17	52.9%	Bolnick et al. 2006
	Isolate		Haida	Southeastern Alaska, USA	1	100.0%
		Kiowa-Tanoan	Jemez	New Mexico, United States	13	76.9%
	Muskogean		Seminole	North America	9	100.0%
		Chickasaw	United States	5	80.0%	Bolnick et al. 2006
		Choctaw	United States	11	63.6%	Bolnick et al. 2006

Region	Language Family	Population	Location	Native Samples	Q1b-M3	Reference
		Creek	United States	10	50.0%	Bolnick et al. 2006
	Siouan-Catawban					
		Sioux	United States	18	38.9%	Bolnick et al. 2006
	Uto-Aztecan					
		Tohono O'odham (Papago)	Arizona, United States	8	75.0%	Kemp et al. 2010
		Akimel O'odham (Pima)	Arizona, United States	15	73.3%	Kemp et al. 2010
South America						
	Aymaran					
		Puno	Peru	3	100.0%	Roewer et al. 2013
		Aymara	Bolivia	57	89.5%	Gaya-Vidal et al. 2011
		Aymara	Peru	34	85.3%	Sandoval et al. 2013
		Aymara	Bolivia	41	82.9%	Sandoval et al. 2013
	Cariban					
		Mapuera	Brazil	5	100.0%	Roewer et al. 2013
		Wai-wai	Brazil	9	100.0%	Bisso-Machado 2011
		Kalina	French Guiana	17	100.0%	Mazières et al. 2008
		Arara	Brazil	8	100.0%	Bisso-Machado 2011
		Tiriyó	Brazil	4	100.0%	Bortolini et al. 2003
		Yukpa	Venezuela	12	100.0%	Bortolini et al. 2003
		Apalaí	French Guiana	48	100.0%	Mazières et al. 2008
		Ye'kuana (Makiritare)	South America	17	100.0%	Lell et al. 2002
		Tiriyo	Brazil	35	94.3%	Roewer et al. 2013
		Arara	Brazil	20	65.0%	Roewer et al. 2013

Region	Language Family	Population	Location	Native Samples	Q1b-M3	Reference
	Chapacuran					
		Pacaás Novos	Brazil	15	100.0%	Bortolini et al. 2003
		Pacaás Novos	Brazil	9	100.0%	Bisso-Machado 2011
	Chibchan					
		Motilon (Bari)	Venezuela	12	100.0%	Bortolini et al. 2003
		Arhuaco (Ijka)	Colombia	19	100.0%	Rojas et al. 2010
		Motilon (Bari)	Venezuela	16	100.0%	Roewer et al. 2013
		Malayo (Arsario)	Colombia	6	100.0%	Rojas et al. 2010
	Chipaya-Uru					
		Uru	Peru	25	100.0%	Sandoval et al. 2013
		Uru	Bolivia	12	100.0%	Sandoval et al. 2013
	Chocoan					
		Emberá	Colombia	12	91.7%	Rojas et al. 2010
		Emberá	Colombia	24	83.3%	Roewer et al. 2013
		Waunana	Colombia	29	6.9%	Rojas et al. 2010
	Chon					
		Tehuelche	Argentina	13	100.0%	Bailliet et al. 2009
		Tehuelche	Patagonia	10	100.0%	Sala and Corach 2014
		Tehuelche	Argentina	10	100.0%	Roewer et al. 2013
	Guaykuran					
		Toba	Argentina	40	100.0%	Roewer et al. 2013
		Pilaga-Labomba	Argentina	13	100.0%	Roewer et al. 2013
		Toba	Argentina	44	100.0%	Toscanini et al. 2011
		Toba	Argentina	10	100.0%	Bailliet et al. 2009
		Mocoví	Argentina	24	91.7%	Bailliet et al. 2009

Region	Language Family	Population	Location	Native Samples	Q1b-M3	Reference
	Isolate					
		Warao	Venezuela	12	100.0%	Bortolini et al. 2003
		Waorani	Ecuador	40	92.5%	Roewer et al. 2013
		Ticuna	Brazil	33	87.9%	Bortolini et al. 2003
		Ticuna	Colombia	26	73.1%	Rojas et al. 2010
	Jean					
		Kaingang	Brazil	19	100.0%	Bortolini et al. 2003
		Kayapo (Mekranoti)	Brazil	5	100.0%	Bortolini et al. 2003
		Kraho	Brazil	9	100.0%	Bortolini et al. 2003
		Kayapo (Xikrin)	Brazil	6	100.0%	Bisso-Machado 2011
		Kayapo	Brazil	17	100.0%	Roewer et al. 2013
		Kayapo (Gorotire)	Brazil	5	100.0%	Bortolini et al. 2003
		Xavante	Brazil	15	100.0%	Bisso-Machado 2011
		Kayapo (Gorotire)	Brazil	14	92.9%	Bisso-Machado 2011
		Kaingang	Brazil	40	92.5%	Marrero et al. 2007
		Kayapo (Mekranoti)	Brazil	7	85.7%	Bisso-Machado 2011
		Zoro	Brazil	6	66.7%	Bisso-Machado 2011
	Jivaroan					
		Huambisa	Peru	16	68.8%	Di Corcia et al. 2016
	Maipurean					
		Wayuu	Venezuela	19	100.0%	Roewer et al. 2013
		Asháninka	Peru	8	100.0%	Di Corcia et al. 2016
		Machiguenga	Peru	11	100.0%	Sandoval et al. 2013
		Yanesha	Peru	18	100.0%	Sandoval et al. 2013

Region	Language Family	Population	Location	Native Samples	Q1b-M3	Reference
		Terena	Brazil	32	100.0%	Roewer et al. 2013
		Yanesha	Peru	111	98.2%	Barbieri et al. 2014
		Palikur	French Guiana	33	97.0%	Mazières et al. 2008
		Machiguenga	French Guiana	26	88.5%	Mazières et al. 2008
		Wayuu	Colombia	13	69.2%	Bortolini et al. 2003
	Mapudungun					
		Mapuche	Argentina	49	100.0%	Roewer et al. 2013
		Pehuenche	Chile	15	100.0%	Bailliet et al. 2009
		Mapuche	Patagonia	14	100.0%	Sala and Corach 2014
		Mapuche	Argentina	15	93.3%	Bailliet et al. 2009
		Huilliche	Chile	13	92.3%	Bailliet et al. 2009
	Mascoyan					
		Lengua	Paraguay	23	69.6%	Bailliet et al. 2009
		Lengua	Paraguay	12	66.7%	Bisso-Machado 2011
	Matacoan					
		Wichí (Mataco)	Argentina	81	100.0%	Sevini et al. 2013
		Chorote	Argentina	8	100.0%	Bailliet et al. 2009
		Wichi	Argentina	45	100.0%	Roewer et al. 2013
		Wichí (Mataco)	Argentina	46	97.8%	Bailliet et al. 2009
	Mosetenan					
		Chimane	Bolivia	8	12.5%	Roewer et al. 2013
	Paezan					
		Paez (Nasa)	Colombia	3	100.0%	Roewer et al. 2013
		Guambiano	Colombia	23	60.9%	Roewer et al. 2013
	Panoan					

Region	Language Family	Population	Location	Native Samples	Q1b-M3	Reference
		Shipibo-Conibo	Peru	21	100.0%	Roewer et al. 2013
		Cashibo	Peru	22	100.0%	Di Corcia et al. 2016
		Shipibo-Conibo	Peru	22	100.0%	Di Corcia et al. 2016
	Quechuan					
		Huanca	Peru	13	100.0%	Roewer et al. 2013
		Chuquibamba	Peru	16	100.0%	Roewer et al. 2013
		Colla	Argentina	14	100.0%	Roewer et al. 2013
		Quechua	Bolivia	29	100.0%	Sandoval et al. 2013
		Quechua	Bolivia	43	100.0%	Gaya-Vidal et al. 2011
		Kogi	Colombia	17	100.0%	Rojas et al. 2010
		Colla	Argentina	10	100.0%	Toscanini et al. 2011
		Quechua	Peru	177	93.2%	Sandoval et al. 2013
		Chumbivilca	Peru	10	90.0%	Roewer et al. 2013
		Kichwa	Ecuador	42	66.7%	Roewer et al. 2013
		Inga (Ingano)	Colombia	8	12.5%	Bortolini et al. 2003
		Inga (Ingano)	Colombia	9	11.1%	Rojas et al. 2010
	Tupian					
		Emerillon	French Guiana	9	100.0%	Mazières et al. 2008
		Wayampi	French Guiana	38	100.0%	Mazières et al. 2008
		Urubu-Kaapor	Brazil	27	100.0%	Roewer et al. 2013
		Aché	Paraguay	53	100.0%	Bortolini et al. 2003
		Guarani	Argentina	97	100.0%	Roewer et al. 2013
		Cinta Larga	Brazil	15	100.0%	Bortolini et al. 2003
		Parakanã	Brazil	20	100.0%	Bortolini et al. 2003
		Ka'apor	Brazil	16	100.0%	Bortolini et al. 2003

Region	Language Family	Population	Location	Native Samples	Q1b-M3	Reference
		Wayampi	Brazil	14	100.0%	Bortolini et al. 2003
		Asurini	Brazil	4	100.0%	Bortolini et al. 2003
		Gavião	Brazil	7	100.0%	Bisso-Machado 2011
		Wayampi	Brazil	13	100.0%	Roewer et al. 2013
		Zo'é	Brazil	25	100.0%	Roewer et al. 2013
		Gavião	Brazil	18	100.0%	Roewer et al. 2013
		Karitiana	Brazil	17	100.0%	Roewer et al. 2013
		Parakana	Brazil	38	100.0%	Roewer et al. 2013
		Karitiana	Brazil	9	100.0%	Bisso-Machado 2011
		Parakana	Brazil	17	100.0%	Bisso-Machado 2011
		Asurini	Brazil	15	100.0%	Roewer et al. 2013
		Surui	Brazil	7	100.0%	Bisso-Machado 2011
		Awa-Guajá	Brazil	46	100.0%	Roewer et al. 2013
		Guaraní (Mbyá)	Brazil	60	93.3%	Marrero et al. 2007
		Guaraní	Brazil	51	92.2%	Bortolini et al. 2003
		Araweté	Brazil	4	75.0%	Bisso-Machado 2011
	Witotoan					
		Witoto	Colombia	3	100.0%	Bortolini et al. 2003
	Yaguan					
		Yagua	Colombia	7	85.7%	Bortolini et al. 2003
	Yanomaman					
		Yanomami	South America	8	100.0%	Lell et al. 2002
		Yanomami	Brazil	10	10.0%	Roewer et al. 2013
	Zamucoan					
		Ayoreo	Paraguay	7	71.4%	Bailliet et al. 2009

Region	Language Family	Population	Location	Native Samples	Q1b-M3	Reference
	Zaparoan					
		Inquito	Peru	5	100.0%	Roewer et al. 2013

Supplementary Table 17.4. Contemporary Native Americans and Q1b-Z780.

Region	Language Family	Population	Location	Native Samples	Q1b-M3	Reference
Central America						
	Chibchan					
		Guaymi (Ngäbe, Ngöbe)	Panama	29	20.7%	Melton et al. 2013
	Chocoan					
		Emberá	Panama	30	23.3%	Melton et al. 2013
	Mayan					
		Mayans	Guatamala	39	25.6%	Regueiro et al. 2013
		Mayans	Yucatan, Mexico	56	23.2%	Regueiro et al. 2013
		Mayans	Mexico and Guatamala	288	15.6%	Perez-Benedico et al. 2016
	Unclassified					
		Chorotega	Costa Rica	11	27.3%	Melton et al. 2013
	Uto-Aztecan					
		Nahua-Atocpan	Mexico	6	50.0%	Kemp et al. 2010
		Tarahumara	Mexico	19	26.3%	Kemp et al. 2010
		Nahua-Cuetzalan	Mexico	10	10.0%	Kemp et al. 2010
		Cora	Mexico	43	4.7%	Kemp et al. 2010
North America						
	Algic					
		Chippewa	Canada	18	66.7%	Bortolini et al. 2003
		Chippewa	United States	8	62.5%	Bolnick et al. 2006
		Chippewa	United States	8	25.0%	Bolnick et al. 2006
	Eyak-Athabaskan					

Region	Language Family	Population	Location	Native Samples	Q1b-M3	Reference
		Gwich'in (Kutchin)	Canada	17	17.6%	Dulik et al. 2012b
	Iroquoian					
		Red Cross Cherokee	United States	17	41.2%	Bolnick et al. 2006
		Stillwell Cherokee	United States	15	26.7%	Bolnick et al. 2006
	Kiowa-Tanoan					
		Jemez	New Mexico, United States	13	23.1%	Kemp et al. 2010
	Muskogean					
		Creek	United States	10	40.0%	Bolnick et al. 2006
		Choctaw	United States	11	36.4%	Bolnick et al. 2006
		Chickasaw	United States	5	20.0%	Bolnick et al. 2006
	Siouan-Catawban					
		Sioux	United States	18	38.9%	Bolnick et al. 2006
	Uto-Aztecan					
		Akimel O'odham (Pima)	Arizona, United States	15	26.7%	Kemp et al. 2010
		Tohono O'odham (Papago)	Arizona, United States	8	25.0%	Kemp et al. 2010
South America						
	Aymaran					
		Aymara	Bolivia	41	17.1%	Sandoval et al. 2013
		Aymara	Peru	34	14.7%	Sandoval et al. 2013
		Aymara	Bolivia	57	10.5%	Gaya-Vidal et al. 2011
	Cariban					

Region	Language Family	Population	Location	Native Samples	Q1b-M3	Reference
		Arara	Brazil	20	35.0%	Roewer et al. 2013
		Tiriyo	Brazil	35	5.7%	Roewer et al. 2013
	Chocoan					
		Waunana	Colombia	29	93.1%	Rojas et al. 2010
		Emberá	Colombia	24	16.7%	Roewer et al. 2013
		Emberá	Colombia	12	8.3%	Rojas et al. 2010
	Guaykuran					
		Mocoví	Argentina	24	8.3%	Bailliet et al. 2009
	Isolate					
		Ticuna	Colombia	26	26.9%	Rojas et al. 2010
		Ticuna	Brazil	33	12.1%	Bortolini et al. 2003
	Jean					
		Zoro	Brazil	6	33.3%	Bisso-Machado 2011
		Kayapo (Mekranoti)	Brazil	7	14.3%	Bisso-Machado 2011
		Kaingang	Brazil	40	7.5%	Marrero et al. 2007
		Kayapo (Gorotire)	Brazil	14	7.1%	Bisso-Machado 2011
	Maipurean					
		Wayuu	Colombia	13	30.8%	Bortolini et al. 2003
		Machiguenga	French Guiana	26	11.5%	Mazières et al. 2008
		Palikur	French Guiana	33	3.0%	Mazières et al. 2008
	Mapudungun					
		Huilliche	Chile	13	7.7%	Bailliet et al. 2009
		Mapuche	Argentina	15	6.7%	Bailliet et al. 2009
	Mascoyan					

Region	Language Family	Population	Location	Native Samples	Q1b-M3	Reference
		Lengua	Paraguay	12	33.3%	Bisso-Machado 2011
		Lengua	Paraguay	23	30.4%	Bailliet et al. 2009
	Matacoan					
		Wichí (Mataco)	Argentina	46	2.2%	Bailliet et al. 2009
	Mosetenan					
		Chimane	Bolivia	8	87.5%	Roewer et al. 2013
	Paezan					
		Guambiano	Colombia	23	39.1%	Roewer et al. 2013
	Quechuan					
		Inga (Ingano)	Colombia	9	88.9%	Rojas et al. 2010
		Inga (Ingano)	Colombia	8	87.5%	Bortolini et al. 2003
		Chumbivilca	Peru	10	10.0%	Roewer et al. 2013
		Kichwa	Ecuador	42	7.1%	Roewer et al. 2013
		Quechua	Peru	177	6.8%	Sandoval et al. 2013
	Tupian					
		Araweté	Brazil	4	25.0%	Bisso-Machado 2011
		Guaraní	Brazil	51	7.8%	Bortolini et al. 2003
		Guaraní (Mbyá)	Brazil	60	6.7%	Marrero et al. 2007
	Yaguan					
		Yagua	Colombia	7	14.3%	Bortolini et al. 2003
	Yanomaman					
		Yanomami	Brazil	10	90.0%	Roewer et al. 2013
	Zamucoan					
		Ayoreo	Paraguay	7	28.6%	Bailliet et al. 2009

Supplementary Table 17.5. Contemporary Native Americans and C2b-P39.

Language Family	Region	Population	Location	Native Samples	C2b-P39	Reference
Algic						
	North America	Chippewa	United States	8	50.0%	Bolnick et al. 2006
	North America	Cheyenne	United States	34	20.6%	Zegura et al. 2004
	North America	Chippewa	Canada	18	16.7%	Bortolini et al. 2003
Eskimo-Aleut						
	North America	Eskimos	Greenland	29	6.9%	Bosch et al. 2003
	North America	Eskimos	Canada	32	3.1%	Dulik et al. 2012b
Eyak-Athabaskan						
	North America	Tanana	Alaska, United States	10	50.0%	Zegura et al. 2004
	North America	Gwich'in (Kutchin)	Canada	17	47.1%	Dulik et al. 2012b
	North America	Dogrib	Canada	30	43.3%	Dulik et al. 2012b
	North America	Apache	United States	89	15.7%	Zegura et al. 2004
	North America	Tlingit	Southeastern Alaska, USA	11	9.1%	Schurr et al. 2012
	North America	Apache	Arizona, United States	22	9.1%	Malhi et al. 2008
	North America	Navajo	United States	73	1.4%	Zegura et al. 2004
Iroquoian						
	North America	Red Cross Cherokee	United States	17	5.9%	Bolnick et al. 2006
Muskogean						
	North America	Creek	United States	10	10.0%	Bolnick et al. 2006
Siouan-Catawban						
	North America	Sioux	United States	16	31.3%	Zegura et al. 2004
	North America	Sioux	United States	18	22.2%	Bolnick et al. 2006

Supplementary Table 17.6. Distribution of Ancient Haplogroup Q-M242 Mutation.

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
Baltic							
	Q1b-M346						
		I4550	Mesolithic	Latvia	Zvejnieki	8489	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Caribbean							
	Q1b-M3						
		I13326	Amerindian	Puerto Rico	Monserrate	1000	Fernandes et al. 2021
		I13737	Amerindian	Bahamas	Long Island (Rolling Heads site)	900	Fernandes et al. 2021
		I14991	Amerindian	Dominican Republic	Loma Perenal	800	Fernandes et al. 2021
	Q1b-M848						
		I10937	Amerindian	Cuba	Canímar Abajo	2900	Fernandes et al. 2021
		I17889	Amerindian	Venezuela	Las Locas	2330	Fernandes et al. 2021
		I8548	Amerindian	Dominican Republic	Andrés	1800	Fernandes et al. 2021
		I18437	Amerindian	Dominican Republic	El Frances	1100	Fernandes et al. 2021
		I7973	Amerindian	Dominican Republic	Macao	1000	Fernandes et al. 2021
		I13441	Amerindian	Puerto Rico	Cabo Rojo 11	1000	Fernandes et al. 2021
		I12576	Amerindian	Haiti	Diale 1	1000	Fernandes et al. 2021
		I17899	Amerindian	Dominican Republic	Atajadizo	900	Fernandes et al. 2021
		I7970	Amerindian	Dominican Republic	La Union	900	Fernandes et al. 2021

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
		I15587	Amerindian	Dominican Republic	La Caleta	900	Fernandes et al. 2021
		I17900	Amerindian	Dominican Republic	Atajadizo	900	Fernandes et al. 2021
		I14990	Amerindian	Dominican Republic	Edilio Cruz	800	Fernandes et al. 2021
		I14883	Amerindian	Bahamas	South Andros Island (Sanctuary Blue Hole)	800	Fernandes et al. 2021
		I13321	Amerindian	Bahamas	Eleuthera Island (Wemyss Bight Cave)	800	Fernandes et al. 2021
		I13318	Amerindian	Bahamas	Crooked Island (Burial Cave #1)	800	Fernandes et al. 2021
		I14875	Amerindian	Bahamas	Abaco Islands (Bill Johnson's Cave, Lubber's Quarters)	800	Fernandes et al. 2021
		I7965	Amerindian	Dominican Republic	Cueva Juana	800	Fernandes et al. 2021
		I12347	Amerindian	Dominican Republic	El Soco	700	Fernandes et al. 2021
		I13196	Amerindian	Dominican Republic	Juan Dolio	600	Fernandes et al. 2021
	Q1b-Z780	I14880	Amerindian	Bahamas	South Andros Island (Sanctuary Blue Hole)	800	Fernandes et al. 2021
		I14879	Amerindian	Bahamas	South Andros Island (Sanctuary Blue Hole)	700	Fernandes et al. 2021
Caucasus							
	Q1b-L330	MJ-38	Scythian	Russia	Zolka, Mound 4, burial 30	2033	Jarve et al. 2019; Reich Dataset V42.4 (2020)
	Q1b-M346						

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
		SA6004	Bronze Age	Russia	Kaspi steppe, Arachalsun 6	5171	Wang et al. 2019; Reich Dataset V42.4 (2020)
		NV3001	Bronze Age	Russia	North Caucasus steppe, Nevinnommiskij 3	3971	Wang et al. 2019; Reich Dataset V42.4 (2020)
	Q1-F903						
		DA354	Bronze Age	Russia	Kurma XI	4626	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
Central America							
	Q1b-L54						
		I5456	Amerindian	Belize	Saki Tzul	7375	Prosth et al. 2018; Reich Dataset V42.4 (2020)
	Q1b-M924						
		B-03	Amerindian	Mexico	LC-218, Baja	2700	Scheib et al. 2018; Reich Dataset V42.4 (2020)
	Q1b-M930						
		MX-01	Amerindian	Mexico	Iron Springs, Baja	2700	Scheib et al. 2018; Reich Dataset V42.4 (2020)
	Q1-F903						
		I5457	Amerindian	Belize	Saki Tzul	7390	Prosth et al. 2018; Reich Dataset V42.4 (2020)
		BC30	Amerindian	Mexico	Piedra Gorda, Las Palmas culture	500	Raghavan et al. 2015; Reich Dataset V42.4 (2020)
Central Asia							
	Q1a-L712						
		I8506	Bronze Age	Uzbekistan	Kokcha 3	3631	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
		DA221	Other	Kazakhstan	Tian Shan, Central Steppe	2619	Barros Damgaard et al. 2018a; Reich Dataset V42.4 (2020)
	Q1b-L330						
		I3976	Bronze Age	Kazakhstan	Zevakinskiy stone fence	3051	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	Q1b-M346						
		I11734	Bronze Age	Kazakhstan	Kumsay, Kyirik Oba	4917	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
		I11526	Bronze Age	Kyrgyzstan	Aygirdjal	4072	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
		I4784	Bronze Age	Kazakhstan	Kyzyl Bulak 1	3516	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	Q2-L275						
		I7493	Bronze Age	Uzbekistan	Sappali Tepe	3750	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
East Asia							
	Q1a-F106						
		ARS015	Bronze Age	Mongolia	Eastern Steppe, Khovsgol aimag, Arbulag sorum	3230	Jeong et al. 2018; Reich Dataset V42.4 (2020)
	Q1a-M120						
		XW-M1R18	Neolithic	China	Xiao Wu, Yellow River Basin	5937	Ning et al. 2020
		HQHM4	Neolithic	China	Honghe site	4000	Cui et al. 2020
		M15-2	Iron Age	China	Shirenzigou	2250	Ning et al. 2019; Reich Dataset V42.4 (2020)
	Q1a-M25						
		X3	Iron Age	China	Shirenzigou	2250	Ning et al. 2019; Reich Dataset V42.4 (2020)
	Q1b-L330						

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference	
Eastern Europe	Q1b-L53	ARS016	Bronze Age	Mongolia	Eastern Steppe, Khovsgol aimag, Arbulag sorum	3402	Jeong et al. 2018; Reich Dataset V42.4 (2020)	
		ARS008	Bronze Age	Mongolia	Eastern Steppe, Khovsgol aimag, Arbulag sorum	3172	Jeong et al. 2018; Reich Dataset V42.4 (2020)	
		ARS001	Bronze Age	Mongolia	Eastern Steppe, Khovsgol aimag, Arbulag sorum	2883	Jeong et al. 2018; Reich Dataset V42.4 (2020)	
		ARS025	Bronze Age	Mongolia	Eastern Steppe, Khovsgol aimag, Arbulag sorum	3231	Jeong et al. 2018; Reich Dataset V42.4 (2020)	
		ARS007	Bronze Age	Mongolia	Eastern Steppe, Khovsgol aimag, Arbulag sorum	3172	Jeong et al. 2018; Reich Dataset V42.4 (2020)	
	Q1b-L54	ARS005	Bronze Age	Mongolia	Eastern Steppe, Khovsgol aimag, Arbulag sorum	3040	Jeong et al. 2018; Reich Dataset V42.4 (2020)	
		ARS011	Bronze Age	Mongolia	Eastern Steppe, Khovsgol aimag, Arbulag sorum	3079	Jeong et al. 2018; Reich Dataset V42.4 (2020)	
	Q1b-M346	ARS004	Bronze Age	Mongolia	Eastern Steppe, Khovsgol aimag, Arbulag sorum	3004	Jeong et al. 2018; Reich Dataset V42.4 (2020)	
		Q1-F903	ARS018	Bronze Age	Mongolia	Eastern Steppe, Khovsgol aimag, Arbulag sorum	2967	Jeong et al. 2018; Reich Dataset V42.4 (2020)
			Q1a-F1096	I0434	Neolithic	Russia	Samara Oblast, Volga River Valley, Khvalynsk II	6906
Q1a-F746	cim358	Scythian	Moldova	Slobodzeya District, Glinoe Sad	2840	Krzewinska et al. 2018; Reich Dataset V42.4 (2020)		

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
	Q1a-L712						
		RISE493	Bronze Age	Russia	Sabinka 2	3429	Allentoft et al. 2015; Reich Dataset V42.4 (2020)
	Q1b-L330						
		MJ-35	Scythian	Ukraine	Kup'evaha, Mound 25, burial 1, skeleton 1	2530	Jarve et al. 2019; Reich Dataset V42.4 (2020)
	Q1b-M346						
		I1017	Bronze Age	Russia	Kamennyi Ambar 5 Cemetery	3791	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	Q1-F903						
		I1007	Bronze Age	Russia	Kamennyi Ambar 5 Cemetery	3800	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
North America							
	Q1a-B143						
		Inuk	Eskimo	Greenland	Qeqertasussuk	3885	Rasmussen et al. 2010, Grugni et al. 2019
	Q1a-B277						
		I5320	Athabaskan	USA	Alaska, western interior, Tochak McGrath, Upper Kuskokwim River	725	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
		I5319	Athabaskan	USA	Alaska, western interior, Tochak McGrath, Upper Kuskokwim River	725	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
		I1125	Eskimo	USA	Alaska, Aleutian Islands, Ship Rock Island	575	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
	Q1a-F1096						
		I1123	Eskimo	USA	Alaska, Aleutian Islands, Kagamil Island Warm Cave	315	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
	Q1a-F746						

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
		I10427	Eskimo	Canada	Victoria Island, Nunavut	1755	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
	Q1a-L712						
		I0719	Eskimo	USA	Alaska, Aleutian Islands, Umnak Island, Chaluka Midden	505	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
		I0719	Eskimo	USA	Alaska, Aleutian Islands, Umnak Island, Chaluka Midden	505	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
		I1124	Eskimo	USA	Alaska, Aleutian Islands, Kagamil Island Warm Cave	230	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
	Q1a-M25						
		I1129	Eskimo	USA	Alaska, Aleutian Islands, Kagamil Island Warm Cave	395	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
	Q1b-B34						
		523a	Athabaskan	USA	Palm Site	125	Scheib et al. 2018; Reich Dataset V42.4 (2020)
	Q1b-L53						
		SN-59	Amerindian	USA	San Nicolas Island, CA	5076	Scheib et al. 2018; Reich Dataset V42.4 (2020)
		Lovelock4	Amerindian	USA	Lovelock Cave, Nevada, US	1880	Moreno Mayar et al. 2018; Reich Dataset V42.4 (2020)
		PS-26	Amerindian	USA	Point Sal, CA	1550	Scheib et al. 2018; Reich Dataset V42.4 (2020)
	Q1b-M3						
		AHUR770c	Amerindian	USA	Nevada, Spirit Cave	10970	Moreno Mayar et al. 2018; Reich Dataset V42.4 (2020)
		Shuka Kaa	Amerindian	USA	Prince of Wales Island, Alaska	10300	Kemp et al. 2007
		SN-44	Amerindian	USA	San Nicolas Island, CA	5337	Scheib et al. 2018; Reich Dataset V42.4 (2020)

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
		SN-17	Amerindian	USA	San Nicolas Island, CA	5148	Scheib et al. 2018; Reich Dataset V42.4 (2020)
		SN-58	Amerindian	USA	San Nicolas Island, CA	5050	Scheib et al. 2018; Reich Dataset V42.4 (2020)
		SN-54	Amerindian	USA	San Nicolas Island, CA	4472	Scheib et al. 2018; Reich Dataset V42.4 (2020)
		SN-20	Amerindian	USA	San Nicolas Island, CA	3150	Scheib et al. 2018; Reich Dataset V42.4 (2020)
		PS-03	Amerindian	USA	Point Sal, CA	1466	Scheib et al. 2018; Reich Dataset V42.4 (2020)
		PS-06	Amerindian	USA	Point Sal, CA	1463	Scheib et al. 2018; Reich Dataset V42.4 (2020)
		NC	Amerindian	USA	New Cuyama, CA	1344	Scheib et al. 2018; Reich Dataset V42.4 (2020)
		SC-06	Amerindian	USA	San Clemente Island, CA	950	Scheib et al. 2018; Reich Dataset V42.4 (2020)
		CT-01	Amerindian	USA	San Catalina Island, CA	414	Scheib et al. 2018; Reich Dataset V42.4 (2020)
	Q1b-M848						
		AHUR_2064	Amerindian	USA	Nevada, Spirit Cave	10970	Moreno Mayar et al. 2018; Reich Dataset V42.4 (2020)
		kennewick	Amerindian	USA	Washington State, Kennewick, Columbia River	8770	Rasmussen et al. 2015; Reich Dataset V42.4 (2020)
	Q1b-M924						
		PS-07	Amerindian	USA	Point Sal, CA	1454	Scheib et al. 2018; Reich Dataset V42.4 (2020)
		SM-01	Amerindian	USA	San Miguel Island, CA	611	Scheib et al. 2018; Reich Dataset V42.4 (2020)
	Q1b-Y4276						

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
		SN-38	Amerindian	USA	San Nicolas Island, CA	3150	Scheib et al. 2018; Reich Dataset V42.4 (2020)
		SN-11	Amerindian	USA	San Nicolas Island, CA	1100	Scheib et al. 2018; Reich Dataset V42.4 (2020)
	Q1b-Z780	Anzick	Amerindian	USA	Montana, Anzick Ranch	12649	Rasmussen et al. 2014; Reich Dataset V42.4 (2020)
	Q-M242						
		SN-32	Amerindian	USA	San Nicolas Island, CA	5090	Scheib et al. 2018; Reich Dataset V42.4 (2020)
		SN-25	Amerindian	USA	San Nicolas Island, CA	4384	Scheib et al. 2018; Reich Dataset V42.4 (2020)
		I1126	Eskimo	USA	Alaska, Aleutian Islands, Umnak Island, Chaluka Midden	965	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
Northern Eurasia	Q1-903						
		RISE673	Bronze Age	Russia	Verkhni Askiz	4300	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
	Q1a1-F746						
		AfontovaGora2	Paleolithic	Russia	Afontova Gora	16710	Raghavan et al. 2014; Sun et al. 2019
	Q1a-B143						
		Kolyma1	Mesolithic	Russia	Duvanni Yar	9786	Sikora et al. 2019; Reich Dataset V42.4 (2020)
		I7336	Bronze Age	Russia	Baikal Region, Angara river basin, Mouth of the Belaya River	6255	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
		NEO250	Eskimo	Russia	Ekven	2155	Sikora et al. 2019; Reich Dataset V42.4 (2020)

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
		NEO248	Eskimo	Russia	Ekven	2115	Sikora et al. 2019; Reich Dataset V42.4 (2020)
	Q1a-B277						
		I7339	Eskimo	Russia	Chukotka, Bering Strait, Ekven	1085	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
		I7332	Eskimo	Russia	Chukotka, Bering Strait, Ekven	1070	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
		I1524	Eskimo	Russia	Uelen Chukotka, Bering Strait	940	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
		I7334	Eskimo	Russia	Chukotka, Bering Strait, Ekven	870	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
		I7343	Eskimo	Russia	Chukotka, Bering Strait, Ekven	860	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
		I7338	Eskimo	Russia	Chukotka, Bering Strait, Ekven	610	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
	Q1a-F746						
		NEO241	Eskimo	Russia	Ekven	1971	Sikora et al. 2019; Reich Dataset V42.4 (2020)
		I7348	Eskimo	Russia	Chukotka, Bering Strait, Ekven	1205	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
		I7337	Eskimo	Russia	Chukotka, Bering Strait, Ekven	1150	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
		I7346	Eskimo	Russia	Chukotka, Bering Strait, Ekven	1145	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
	Q1a-L712						
		DA343	Bronze Age	Russia	Ust'-Ida	4827	Barros Damgaard et al. 2018a; Reich Dataset V42.4 (2020)
		I1526	Bronze Age	Russia	Baikal Region, Angara river basin, Mouth of the Belaya River	4755	Flegontov et al. 2019; Reich Dataset V42.4 (2020)

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
		I7779	Bronze Age	Russia	Baikal Region, Angara river basin, Mouth of the Belaya River	4750	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
		I7780	Bronze Age	Russia	Baikal Region, Angara river basin, Mouth of the Belaya River	4615	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
		I7335	Bronze Age	Russia	Baikal Region, Angara river basin, Mouth of the Belaya River	4465	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
		DA353	Bronze Age	Russia	Ust'-Ida	4301	Barros Damgaard et al. 2018a; Reich Dataset V42.4 (2020)
		DA356	Neolithic	Russia	Ust'-Ida	4284	Barros Damgaard et al. 2018a; Reich Dataset V42.4 (2020)
		DA361	Bronze Age	Russia	Ust'-Ida	4158	Barros Damgaard et al. 2018a; Reich Dataset V42.4 (2020)
		RISE683	Bronze Age	Russia	Uybat V	3977	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
		DA4	Scythian	Russia	Siberia, Tungus & Eastern Steppe	2850	Barros Damgaard et al. 2018a; Reich Dataset V42.4 (2020)
		I7331	Eskimo	Russia	Chukotka, Bering Strait, Ekven	1045	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
	Q1a-M25	I7759	Bronze Age	Russia	Baikal Region, Angara river basin, Mouth of the Belaya River	7035	Flegontov et al. 2019; Reich Dataset V42.4 (2020)
	Q1b-FGY4276						
		NEO247	Eskimo	Russia	Ekven	1906	Sikora et al. 2019; Reich Dataset V42.4 (2020)
	Q1b-L330						

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
		RISE718	Bronze Age	Russia	Syda 5, Tumen	4411	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
		RISE719	Bronze Age	Russia	Syda 5, Tumen	4300	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
		S3427	Bronze Age	Russia	Okunev Ulus	4283	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
		DA339	Bronze Age	Russia	Shamanka II	4040	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
	Q1b-L53						
		NEO232	Bronze Age	Russia	Ust'Belaya	4803	Sikora et al. 2019; Reich Dataset V42.4 (2020)
		DA337	Bronze Age	Russia	Shamanka II	4331	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
		DA335	Bronze Age	Russia	Shamanka II	4200	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
		DA336	Bronze Age	Russia	Shamanka II	4200	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
		DA338	Bronze Age	Russia	Shamanka II	4200	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
		DA334	Bronze Age	Russia	Shamanka II	4121	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
		S3426	Bronze Age	Russia	Okunev Ulus	4070	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
		NEO242	Eskimo	Russia	Ekven	1788	Sikora et al. 2019; Reich Dataset V42.4 (2020)
		NEO246	Eskimo	Russia	Ekven	1636	Sikora et al. 2019; Reich Dataset V42.4 (2020)
	Q1b-M346	DA355	Neolithic	Russia	Ust'-Ida	5461	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
		I3950	Afanasievo	Russia	Altai Mountains, Yenisey River, left bank of Karasuk tributary, Karasuk III	4707	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
		I3949	Afanasievo	Russia	Altai Mountains, Yenisey River, left bank of Karasuk tributary, Karasuk III	4618	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
		I6714	Afanasievo	Russia	Altai Mountains, Yenisey River, left bank of Karasuk tributary, Karasuk III	4495	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
		RISE672	Bronze Age	Russia	Verkhni Askiz	4300	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
		RISE674	Bronze Age	Russia	Verkhni Askiz	4079	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
		I6717	Bronze Age	Russia	Krasnoyarsk Krai, near Orak Ulus, Orak burial place	3402	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	Q1b-Y2659						
		RISE670	Bronze Age	Russia	Verkhni Askiz	3963	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
	Q1-F903						
		NEO243	Eskimo	Russia	Ekven	2218	Sikora et al. 2019; Reich Dataset V42.4 (2020)

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
South America							
Q1a-F1096							
		I2232	Amerindian	Argentina	Arroyo Seco II	8360	Prosth et al. 2018; Reich Dataset V42.4 (2020)
		I8350	Amerindian	Argentina	Pampas, Laguna Chica	7700	Prosth et al. 2018; Reich Dataset V42.4 (2020)
		I7090	Amerindian	Argentina	Arroyo Seco II	7218	Prosth et al. 2018; Reich Dataset V42.4 (2020)
Q1b-L53							
		LAR002	Amerindian	Brazil	Laranjal	6790	Prosth et al. 2018; Reich Dataset V42.4 (2020)
		Enoque65	Amerindian	Brazil	Toca do Enoque Cave, Serra da Capivara, Piaui	3559	Raghavan et al. 2015; Reich Dataset V42.4 (2020)
		I1357	Amerindian	Peru	Botigiriayocc, Laramate, Highlands	925	Prosth et al. 2018; Reich Dataset V42.4 (2020)
		I0237	Amerindian	Peru	Botigiriayocc, Laramate, Highlands	860	Prosth et al. 2018; Reich Dataset V42.4 (2020)
		I2537	Amerindian	Chile	Pica Ocho, Coast	645	Prosth et al. 2018; Reich Dataset V42.4 (2020)
		AM74	Amerindian	Chile	Strait of Magellan	100	Raghavan et al. 2015; Reich Dataset V42.4 (2020)
Q1b-L54							
		I1753	Amerindian	Chile	Coquimbo, Los Vilos, Los Rieles	5095	Prosth et al. 2018; Reich Dataset V42.4 (2020)
		IL4	Amerindian	Peru	Rio Ilave Basin, Rio Uncallane	1478	Lindo et al. 2018; Reich Dataset V42.4 (2020)
Q1b-M3							
		I11974	Amerindian	Chile	Coquimbo, Los Vilos, Los Rieles	11885	Prosth et al. 2018; Reich Dataset V42.4 (2020)

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
		Sumidouro4	Amerindian	Brazil	Caverna do Sumidouro, Lagoa Santa, Brazil	10096	Moreno Mayar et al. 2018; Reich Dataset V42.4 (2020)
		Lapa15	Amerindian	Brazil	Lapa do Santo	9605	Prosth et al. 2018; Reich Dataset V42.4 (2020)
		I0309	Amerindian	Argentina	Arroyo Seco II	7650	Prosth et al. 2018; Reich Dataset V42.4 (2020)
		I0308	Amerindian	Argentina	Arroyo Seco II	7435	Prosth et al. 2018; Reich Dataset V42.4 (2020)
		I0040	Amerindian	Peru	Lauricocha, Highlands	5845	Prosth et al. 2018; Reich Dataset V42.4 (2020)
		CP8	Amerindian	Peru	Pucuncho Basin, Cuncaicha	4115	Prosth et al. 2018; Reich Dataset V42.4 (2020)
		I2261	Amerindian	Peru	La Galgada, Highlands	4105	Prosth et al. 2018; Reich Dataset V42.4 (2020)
		CUN008	Amerindian	Peru	Pucuncho Basin, Cuncaicha	3275	Prosth et al. 2018; Reich Dataset V42.4 (2020)
		IL7	Amerindian	Peru	Rio llave Basin, Rio Uncallane	1778	Lindo et al. 2018; Reich Dataset V42.4 (2020)
		IPK13	Amerindian	Chile	Yekchal, Patagonia	1120	Fuente et al. 2018; Reich Dataset V42.4 (2020)
		I1485	Amerindian	Peru	Cueva Yacotogia, Laramate, Highlands	1060	Prosth et al. 2018; Reich Dataset V42.4 (2020)
		IPY08	Amerindian	Chile	Beagle Channel, Hoste Island	950	Fuente et al. 2018; Reich Dataset V42.4 (2020)
		I1484	Amerindian	Peru	Botigiriayocc, Laramate, Highlands	815	Prosth et al. 2018; Reich Dataset V42.4 (2020)
		I1752	Amerindian	Chile	Conchalí, Santiago, RM	595	Prosth et al. 2018; Reich Dataset V42.4 (2020)
		Aconcagua	Amerindian	Argentina	Cerro Aconcagua, Mendoza Province	500	Salas et al. 2018

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
		MA577	Amerindian	Argentina	Tierra del Fuego, Strait of Magellan	100	Raghavan et al. 2015; Reich Dataset V42.4 (2020)
	Q1b-M346						
		Yaghan890	Amerindian	Argentina	Beagle Channel, Tierra del Fuego	100	Raghavan et al. 2015; Reich Dataset V42.4 (2020)
	Q1b-M848						
		Sumidouro5	Amerindian	Brazil	Caverna do Sumidouro, Lagoa Santa, Brazil	10405	Moreno Mayar et al. 2018; Reich Dataset V42.4 (2020)
		Sumidouro7	Amerindian	Brazil	Caverna do Sumidouro, Lagoa Santa, Brazil	10271	Moreno Mayar et al. 2018; Reich Dataset V42.4 (2020)
		Sumidouro6	Amerindian	Brazil	Caverna do Sumidouro, Lagoa Santa, Brazil	10154	Moreno Mayar et al. 2018; Reich Dataset V42.4 (2020)
		A460	Amerindian	Chile	Ayayema Cave, Patagonia	4660	Moreno Mayar et al. 2018; Reich Dataset V42.4 (2020)
	Q1b-M930						
		Lapa14	Amerindian	Brazil	Lapa do Santo	9510	Prosth et al. 2018; Reich Dataset V42.4 (2020)
	Q1b-Z780						
		Lapa24	Amerindian	Brazil	Lapa do Santo	9250	Prosth et al. 2018; Reich Dataset V42.4 (2020)
		I2230	Amerindian	Argentina	Arroyo Seco II	8670	Prosth et al. 2018; Reich Dataset V42.4 (2020)
		I0038	Amerindian	Peru	Lauricocha, Highlands	8625	Prosth et al. 2018; Reich Dataset V42.4 (2020)
		I0039	Amerindian	Peru	Lauricocha, Highlands	3530	Prosth et al. 2018; Reich Dataset V42.4 (2020)

Region	Mutation	Master ID	Culture	Country	Location	Death	Reference
South Asia	Q1-F903	I1754	Amerindian	Chile	Conchalí, Santiago, RM	825	Prosth et al. 2018; Reich Dataset V42.4 (2020)
		I0238	Amerindian	Peru	Lauricocha, Highlands	8450	Prosth et al. 2018; Reich Dataset V42.4 (2020)
	Q1a-L712	I12134	Iron Age	Pakistan	Swat Valley, Loebanr	2850	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
		I13228	Iron Age	Pakistan	Swat Valley, Loebanr	2850	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
I5400	Iron Age	Pakistan	Swat Valley, Loebanr	2829	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)		

Supplementary Table 17.7. Contemporary Distribution of Q1a-M25.

Region	Language Family	Population	Location	Sample Size	Q1a-M25	Reference
Central Asia						
	Turkic					
		Turkmen	Afghanistan	74	31.1%	Di Cristofaro 2013
		Uzbek	Afghanistan	127	0.8%	Di Cristofaro 2013
East Asia						
	Mongolic					
		Mongols	Western Mongolia	22	13.6%	Battaglia et al. 2013
		Mongols	Mongolia	160	0.6%	Di Cristofaro 2013
Eastern Europe						
	Indo-European					
		Bulgarians	Bulgaria	808	0.1%	Karachanak et al. 2013
Middle East						
	Afro-Asiatic					
		Marsh Arabs	Iraq	143	0.7%	Al Zahery et al. 2011
		Lebanese	Lebanon	914	0.4%	Zalloua et al. 2008
	Indo-European					
		Iranians	Iran	150	4.0%	Regueiro et al. 2006
		Iranians	Iran	186	1.1%	Di Cristofaro 2013
	Turkic					
		Turks	Turkey	523	0.2%	Cinnioglu et al. 2004
Northern Eurasia						
	Turkic					
		Altaians	Altai Republic	189	0.5%	Dulik et al. 2012a

Supplementary Table 17.8. Contemporary Distribution of Q1a-F746.

Region	Language Family	Population	Location	Native Samples	Q1a-F746	Reference
North America	Eskimo-Aleut	Greenlanders	Greenland	122	57.38%	Olofsson et al. 2015
North America	Eskimo-Aleut	Eskimos	Canada	32	78.13%	Dulik et al. 2012b
North America	Eyak-Athabaskan	Dogrib	Canada	30	3.33%	Dulik et al. 2012b

Supplementary Table 17.9. Q-M242, Q1-F903 and Q1b-M3 among Northeast Asian Populations.

Language Family	Location	Population	No. Q-M242 Samples	Q1-F903 Samples	Q1b-M3 Samples	Reference
Chukotko-Kamchatkan	Chukotka	Chukchi	3	0	3	Lell et al. 2002
Chukotko-Kamchatkan	Kamchatka Peninsula	Koryaks	5	3	2	Battaglia et al. 2013
Chukotko-Kamchatkan	Sakha Republic	Koryaks	2	0	0	Pakendorf et al. 2007
Chukotko-Kamchatkan	Siberia, Russia	Koryaks	4	4	0	Malyarchuk et al. 2011
Eskimo-Aleut	Chukotka	Yupik	7	0	7	Lell et al. 2002
Eskimo-Aleut	Siberia, Russia	Yupik	9	2	6	Regueiro et al. 2013

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Supplementary Tables for Chapter Eighteen and Haplogroup R-M207.



Supplementary Table 18.1. The Contemporary Distribution of R2a-M124.

Region	Language Family	Population	Location	Sample Size	R2a-M124	Reference
Central Asia						
	Turkic					
		Kazakh (Zhanakorgan)	Kazakhstan	94	11.7%	Zhabagin et al. 2017
Middle East						
	Indo-European					
		Armenians (Sasun)	Turkey	104	17.3%	Hovhannisyan et al. 2014
Northern Eurasia						
	Mongolic					
		Kalmyks	Siberia, Russia	60	10.0%	Malyarchuk et al. 2011
South Asia						
	Austro-Asiatic					
		Santhal	West Bengal	51	15.7%	Debnath et al. 2011
		Ho	Northeastern India	28	10.7%	Borkar et al. 2011
	Dravidian					
		Paravar	Tamil Nadu, India	27	37.0%	Arunkumar et al. 2012
		Kadar	Tamil Nadu, India	28	28.6%	Arunkumar et al. 2012
		Oraon	West Bengal	31	22.6%	Debnath et al. 2011
		Parayar NTN	Tamil Nadu, India	52	17.3%	Arunkumar et al. 2012
		Yadhava	Tamil Nadu, India	107	16.8%	Arunkumar et al. 2012
		Pulayar	Tamil Nadu, India	63	15.9%	Arunkumar et al. 2012
		Lingayat	Southwest India	101	15.8%	Chennakrishnaiah et al. 2013
		Vanniyar	Tamil Nadu, India	21	14.3%	Arunkumar et al. 2012

Region	Language Family	Population	Location	Sample Size	R2a-M124	Reference
		Maravar	Tamil Nadu, India	80	13.8%	Arunkumar et al. 2012
		Vokkaliga	Southwest India	102	13.7%	Chennakrishnaiah et al. 2013
		Pallar	Tamil Nadu, India	51	13.7%	Arunkumar et al. 2012
		Ezhava	Tamil Nadu, India	95	12.6%	Arunkumar et al. 2012
		Vanniyar	South India	25	12.0%	Sengupta et al. 2006
		Brahui	South Pakistan	25	12.0%	Sengupta et al. 2006
		Brahui	Pakistan	25	12.0%	Di Cristofaro et al. 2013
		Naikpod	Andra Pradesh	68	11.8%	Thanseem et al. 2006
		Tamil Jains	Tamil Nadu, India	100	11.0%	Arunkumar et al. 2012
		Pardhan	Andra Pradesh	128	10.9%	Thanseem et al. 2006
		Iyer	South India	29	10.3%	Sengupta et al. 2006
		Irula	South India	30	10.0%	Sengupta et al. 2006
		Iyengar	South India	30	10.0%	Sengupta et al. 2006
	Indo-European					
		Lodha	East India	20	35.0%	Sengupta et al. 2006
		Konkana	Gujarat	24	20.8%	Khurana et al. 2014
		Maratha	West India	20	20.0%	Sengupta et al. 2006
		Koknasth Brahmin	West India	25	20.0%	Sengupta et al. 2006
		Valvi Chaudhari	Gujarat	32	18.8%	Khurana et al. 2014
		Dhodia	Gujarat	63	14.3%	Khurana et al. 2014
		Brahacharanam	Tamil Nadu, India	21	14.3%	Arunkumar et al. 2012
		Baloch	Pakistan	25	12.0%	Di Cristofaro et al. 2013
		Mahadeo Koli	Maharashtra	50	12.0%	Thangaraj et al. 2010
		Makrani	Pakistan	20	10.0%	Di Cristofaro et al. 2013
	Isolate - Burushaski					

Region	Language Family	Population	Location	Sample Size	R2a-M124	Reference
		Burusho	North Pakistan	20	15.0%	Sengupta et al. 2006
		Burusho	Pakistan	20	15.0%	Di Cristofaro et al. 2013
	Sino-Tibetan					
		Newar	Nepal	66	25.8%	Gayden et al. 2007

Supplementary Table 18.2. The Contemporary Distribution of R1a-M420.

Region	Language Family	Population	Location	Sample Size	R1a-M420	Reference
Baltic						
	Indo-European					
		Latvians	Latvia	113	38.9%	Lappalainen et al. 2008
		Lithuanians	Lithuania	164	34.1%	Lappalainen et al. 2008
	Uralic					
		Karelians	Russia	140	40.7%	Underhill et al. 2010; Underhill et al. 2015
		Estonians	Estonia	118	37.3%	Lappalainen et al. 2008
		Veps	Russia	39	35.9%	Underhill et al. 2010; Underhill et al. 2015
		Estonians	Estonia	236	33.1%	Underhill et al. 2010; Underhill et al. 2015
		Karelians	Russia	132	25.0%	Lappalainen et al. 2008
Caucasus						
	Indo-European					
		Tats	Daghestan	24	25.0%	Karafet et al. 2016
	Turkic					
		Balkars	Caucasus Russia	135	28.1%	Yunubayev et al. 2012
		Balkars	Caucasus	136	27.9%	Underhill et al. 2010; Underhill et al. 2015
		Karachays	Caucasus	69	27.5%	Underhill et al. 2010; Underhill et al. 2015
		Karachays	Caucasus Russia	69	27.5%	Yunubayev et al. 2012
Central Asia						
	Indo-European					

Region	Language Family	Population	Location	Sample Size	R1a-M420	Reference
		Pashtun	Afghanistan	190	62.1%	Lacau et al. 2012
		Pashtun	Afghanistan	87	56.3%	Di Cristofaro et al. 2013
		Pashtuns	Afghanistan	84	53.6%	Di Cristofaro et al. 2013; Underhill et al. 2015
		Pashtun	Afghanistan	49	51.0%	Haber et al. 2012
		Tajik	Afghanistan	56	30.4%	Haber et al. 2012
		Tajik	Afghanistan	142	27.5%	Di Cristofaro et al. 2013
		Tajik	Afghanistan	140	25.0%	Di Cristofaro et al. 2013; Underhill et al. 2015
Turkic						
		Kyrgyz	Kyrgyzstan	132	54.5%	Di Cristofaro et al. 2013
		Kyrgyz	Kyrgyzstan	232	46.6%	Underhill et al. 2010; Underhill et al. 2015
		Uzbek	Afghanistan	127	29.1%	Di Cristofaro et al. 2013
		Uzbek (Tashkent)	Uzbekistan	52	28.8%	Zhabagin et al. 2017
		Kazakh (Zhanakorgan)	Kazakhstan	94	27.7%	Zhabagin et al. 2017
		Uzbeks	Afghanistan	125	25.6%	Di Cristofaro et al. 2013; Underhill et al. 2015
Eastern Europe						
Indo-European						
		Poles	Poland	520	60.6%	Rebala et al. 2013
		Belarusians	Belarus	364	55.8%	Underhill et al. 2010; Kushniarevich et al. 2013; Underhill et al. 2015
		Russians	Russia	433	53.3%	Underhill et al. 2010; Underhill et al. 2015
		Belarusians	Belarus	565	50.6%	Kushniarevich et al. 2013
		Poles	Poland	202	50.0%	Underhill et al. 2010; Underhill et al. 2015

Region	Language Family	Population	Location	Sample Size	R1a-M420	Reference
		Ukrainians	Ukraine	498	47.2%	Underhill et al. 2010; Underhill et al. 2015
		Slovaks	Slovakia	257	46.3%	Underhill et al. 2010; Underhill et al. 2015
		Russians	Russia	1228	46.3%	Balanovsky et al. 2008
		Slovaks	Slovakia	164	45.1%	Rebala et al. 2013
		Ukrainians	Lviv Region, Ukraine	154	44.8%	Mielnik-Sikorska et al. 2013.
		Czechs	Czech Republic	53	37.7%	Underhill et al. 2010; Underhill et al. 2015
		Slovenes	Slovenia	399	37.3%	Zupan et al. 2013
		Croatians	Balkans	108	34.3%	Pericic et al. 2005
		Czechs	Czech Republic	257	34.2%	Luca et al. 2007
		Slovaks	Slovakia	156	33.3%	Novackova et al. 2015
		Moldavians	Moldavia	125	30.4%	Varzari et al. 2013
		Croatians	Croatia	108	28.7%	Underhill et al. 2010; Underhill et al. 2015
		Croatians	Croatia	720	25.6%	Sarac et al. 2016
	Turkic					
		Tatars	Tatarstan, Russia	66	37.9%	Underhill et al. 2010; Underhill et al. 2015
		Bashkir	Russia, Volga-Ural Region	58	34.5%	Trofimova et al. 2015
		Chuvash	Russia, Volga-Ural Region	44	29.5%	Trofimova et al. 2015
	Uralic					
		Mordvins	Russia, Volga-Ural Region	59	42.4%	Trofimova et al. 2015
		Besermyan	Russia, Volga-Ural Region	53	32.1%	Trofimova et al. 2015
		Mari	Russia	51	31.4%	Underhill et al. 2010; Underhill et al. 2015

Region	Language Family	Population	Location	Sample Size	R1a-M420	Reference		
Middle East	Indo-European	Hungarians	Hungary	100	30.0%	Csanyi et al. 2008		
		Hungarians	Hungary	119	25.2%	Volgyi et al. 2008		
		Baloch	Iran	24	25.0%	Grugni et al. 2012		
Northern Eurasia								
South Asia	Turkic	Altaians	Altai Republic, Russia	146	47.9%	Kharkov et al. 2007		
		Altai (Altaians, Altay)	Altai-Sayan Region	59	40.7%	Gubina et al. 2013		
		Altaians	Altai Republic	189	40.2%	Dulik et al. 2012a		
		Altai (Altaians, Altay)	Russia	61	39.3%	Underhill et al. 2010; Underhill et al. 2015		
		Khakas	Altai-Sayan Region	176	35.2%	Gubina et al. 2013		
		Khakas	Russia	76	34.2%	Underhill et al. 2010; Underhill et al. 2015		
		Khakas	Khakassia, Russia	251	27.9%	Kharkov et al. 2011		
		Indo-European	Dravidian	Iyengar	South India	30	30.0%	Sengupta et al. 2006
				Iyer	South India	29	27.6%	Sengupta et al. 2006
Pavagadhi Chaudhari	Gujarat		29	62.1%	Khurana et al. 2014			
Sindhi	South Pakistan		21	52.4%	Sengupta et al. 2006			
Sindhi	Pakistan		21	52.4%	Di Cristofaro et al. 2013			
Pathans	Pakistan		270	49.3%	Lee et al. 2014			
Koknasth Brahmin	West India	25	48.0%	Sengupta et al. 2006				

Region	Language Family	Population	Location	Sample Size	R1a-M420	Reference
		Bengali	West Bengal	54	40.7%	Debnath et al. 2011
		Pathans	Pakistan	20	40.0%	Di Cristofaro et al. 2013
		Pathans	North Pakistan	20	40.0%	Sengupta et al. 2006
		Andh	Andra Pradesh	54	31.5%	Thanseem et al. 2006
		Rajput	Northern India	29	31.0%	Sengupta et al. 2006
		Makrani	Pakistan	20	30.0%	Di Cristofaro et al. 2013
		Konkana	Gujarat	24	29.2%	Khurana et al. 2014
		Thakur	Maharashtra	48	29.2%	Thangaraj et al. 2010
		Rajbanshi	Northeastern India	45	28.9%	Borkar et al. 2011
		Baloch	South Pakistan	25	28.0%	Sengupta et al. 2006
		Baloch	Pakistan	25	28.0%	Di Cristofaro et al. 2013
		Mahadeo Koli	Maharashtra	50	26.0%	Thangaraj et al. 2010
	Sino-Tibetan					
		Newar	Nepal	66	25.8%	Gayden et al. 2007
Western Europe						
	Indo-European					
		Sorbs	Germany	123	65.0%	Rebala et al. 2013

Supplementary Table 18.3. The Contemporary Distribution of R1b-M343.

Region	Language Family	Population	Location	Sample Size	R1b-M343	Reference
Caucasus						
	Indo-European					
		Armenians (Eastern)	Armenia	416	36.1%	Hovhannisyan et al. 2014
		Tats	Daghestan	24	29.2%	Karafet et al. 2016
	North Caucasian					
		Bagvalals	Northeast Caucasus	28	67.9%	Myres et al. 2011
		Tabasarans	Northeast Caucasus	43	39.5%	Myres et al. 2011
Eastern Europe						
	Indo-European					
		Czechs	Czech Republic	257	28.0%	Luca et al. 2007
		Slovaks	Slovakia	156	25.0%	Novackova et al. 2015
	Turkic					
		Bashkir	Bashkortostan, Russia	586	46.1%	Myres et al. 2011
		Bashkir	Russia, Volga-Ural Region	58	43.1%	Trofimova et al. 2015
Mediterranean						
	Indo-European					
		Corsicans	Corsica	24	58.3%	Busby et al. 2012
		Italians	Italy (north)	34	52.9%	Cruciani et al. 2011
		Sicilians	Sicily	258	41.9%	Busby et al. 2012
		Corsicans	Corsica	28	39.2%	Cruciani et al. 2011
		Italians	Italy	884	38.7%	Boattini et al. 2013
		Italians	Italy	282	37.2%	Myres et al. 2011
		Italians	Italy	432	36.8%	Busby et al. 2012

Region	Language Family	Population	Location	Sample Size	R1b-M343	Reference
		Italians	Italy (central)	262	34.8%	Cruciani et al. 2011
		Sicilians	Italy	86	26.7%	Cruciani et al. 2011
Middle East						
	Afro-Asiatic					
		Assyrians	Iran	39	56.4%	Grugni et al. 2012
	Indo-European					
		Armenians (Van)	Turkey	103	32.0%	Hovhannisyan et al. 2014
North Africa						
	Afro-Asiatic					
		Hausa	Sudan	32	40.6%	Hassan et al. 2008
		Egyptian Berbers from Siwa	Egypt	93	26.0%	D'Atanasio et al. 2018
Scandinavia						
	Indo-European					
		Danes	Denmark	58	55.2%	Bosch et al. 2003
		Danes	Denmark	35	54.3%	Cruciani et al. 2011
		Norwegians	Norway	138	44.2%	Busby et al. 2012
		Icelanders	Iceland	181	41.4%	Pericic et al. 2005; Helgason et al. 2000
		Danes	Denmark	174	37.4%	Valverde et al. 2016
		Danes	Denmark	110	36.4%	Myres et al. 2011
		Norwegians	Norway	112	26.8%	Pericic et al. 2005; Helgason et al. 2000
South Asia						
	Indo-European					
		Hazara	Pakistan	25	32.0%	Di Cristofaro et al. 2013

Region	Language Family	Population	Location	Sample Size	R1b-M343	Reference
Sub-Saharan Africa		Hazara	North Pakistan	25	32.0%	Sengupta et al. 2006
	Afro-Asiatic					
		Ouldeme	Cameroon (North)	24	96.0%	D'Atanasio et al. 2018
		Uldeme	Cameroon	22	63.7%	Cruciani et al. 2010
		Daba	Cameroon (North)	29	51.0%	D'Atanasio et al. 2018
		Mandara	Cameroon (North)	82	43.0%	D'Atanasio et al. 2018
	Niger-Congo					
		Toupouri	Cameroon (North)	31	71.0%	D'Atanasio et al. 2018
		Moundang	Cameroon (North)	21	67.0%	D'Atanasio et al. 2018
		Yoruba	Southern Nigeria	21	47.5%	Cruciani et al. 2010
		Mundang	Northern Cameroon	21	28.6%	Cruciani et al. 2010
		Nilo-Saharan				
		Toubou	Chad	71	33.8%	Haber et al. 2016
	Western Europe					
	Indo-European					
	Irish	Ireland	377	91.5%	Busby et al. 2012	
	Welsh	Wales	88	88.6%	Pericic et al. 2005; Wilson et al. 2001	
	French	France (Brittany)	145	86.9%	Valverde et al. 2016	
	Irish	Ireland	99	82.8%	Myres et al. 2011	
	Irish	Ireland	222	81.5%	Pericic et al. 2005; Helgason et al. 2000	
	Irish	Ireland	146	81.5%	Valverde et al. 2016	
	Welsh	Wales	129	81.4%	Busby et al. 2012	

Region	Language Family	Population	Location	Sample Size	R1b-M343	Reference
		Scots	Scotland	61	77.0%	Pericic et al. 2005; Helgason et al. 2000
		Scots	Scotland	168	75.0%	Busby et al. 2012
		English	England	102	71.6%	Myres et al. 2011
		Dutch	Netherlands	27	70.4%	Pericic et al. 2005; Semino et al. 2000
		Spanish	Spain	126	68.3%	Pericic et al. 2005; Rosser et al. 2000
		Spanish	Spain	359	68.2%	Busby et al. 2012
		Germans	Germans	102	66.7%	Busby et al. 2012
		Andalusians	Spain	62	66.1%	Cruciani et al. 2011
		English	England	337	65.6%	Busby et al. 2012
		Spanish	Spain	644	65.2%	Valverde et al. 2016
		Orkney Islanders	Orkney	112	64.3%	Busby et al. 2012
		Portuguese	Portugal	110	62.7%	Valverde et al. 2016
		English	England	215	61.9%	Pericic et al. 2005; Wilson et al. 2001
		French	France	558	61.8%	Ramos-Luis, E. et al. 2014
		Portuguese	Portugal	385	61.0%	Pericic et al. 2005; Rosser et al. 2000
		French	France	482	60.8%	Busby et al. 2012
		Portuguese	Portugal	300	60.7%	Busby et al. 2012
		French	France	43	60.5%	Cruciani et al. 2011
		Portuguese	Portugal (north)	50	60.0%	Cruciani et al. 2011
		Asturians	Spain	70	58.5%	Cruciani et al. 2011
		Portuguese	Portugal, Lisbon	100	57.0%	Myres et al. 2011
		French	France	93	57.0%	Myres et al. 2011

Region	Language Family	Population	Location	Sample Size	R1b-M343	Reference
		Frisians	Friesland	94	56.4%	Pericic et al. 2005; Wilson et al. 2001
		Frisians	Friesland	94	53.2%	Busby et al. 2012
		Dutch	Netherlands	87	52.9%	Myres et al. 2011
		Spanish	Spain	454	51.5%	Myres et al. 2011
		Germans	Germany	349	45.3%	Rebala et al. 2013
		Germans	Germany	321	44.2%	Myres et al. 2011
		Germans	Germany	77	42.9%	Cruciani et al. 2011
		Portuguese	Portugal (south)	49	38.8%	Cruciani et al. 2011
Isolate - Basque						
		Gipuzkoa Basques	Spain	74	91.9%	Alonso et al. 2005
		Basques	France and Spain	67	88.1%	Pericic et al. 2005; Semino et al. 2000
		Basques	Spain	55	85.4%	Cruciani et al. 2011
		Biscay Basques	Spain	72	83.3%	Alonso et al. 2005
		Basques	Basque Country of Spain	341	82.4%	Valverde et al. 2016

Supplementary Table 18.4. The Contemporary Distribution of R1b-M73.

Region	Language Group	Language Family	Population	Location	Sample Size	R1b-M73	Reference
Caucasus							
	Turkic						
		Turkic	Nogais, Kara	Caucasus Russia	76	15.8%	Yunubayev et al. 2012
		Turkic	Balkars	Caucasus Russia	135	10.4%	Yunubayev et al. 2012
		Turkic	Balkars	Northwest Caucasus	136	10.3%	Myres et al. 2011
		Turkic	Karachays	Northeast Caucasus	69	5.8%	Myres et al. 2011
		Turkic	Karachays	Caucasus Russia	69	5.8%	Yunubayev et al. 2012
Eastern Europe							
	Turkic						
		Turkic	Bashkir	Bashkortostan, Russia	586	13.5%	Myres et al. 2011
	Uralic						
		Uralic	Mordvins	Russia, Volga-Ural Region	59	10.2%	Trofimova et al. 2015
Northern Eurasia							
	Turkic						
		Turkic	Shors	Siberia, Russia	38	13.2%	Malyarchuk et al. 2011
		Turkic	Teleuts	Siberia, Russia	44	11.4%	Malyarchuk et al. 2011
South Asia							
	Iranian						
		Indo-European	Hazara	North Pakistan	25	32.0%	Sengupta et al. 2006
		Indo-European	Hazara	Pakistan	25	32.0%	Di Cristofaro et al. 2013

Supplementary Table 18.5. The Contemporary Distribution of R1b-U106.

Region	Language Group	Language Family	Population	Location	Sample Size	R1b-U106	Reference
Eastern Europe							
	Italic						
		Indo-European	Romanians	Romania	29	6.9%	Cruciani et al. 2011
	Uralic						
		Uralic	Hungarians	Hungary	106	7.5%	Cruciani et al. 2011
	West Slavic						
		Indo-European	Poles	Poland	40	10.0%	Cruciani et al. 2011
		Indo-European	Slovenes	Slovenia	399	8.0%	Zupan et al. 2013
		Indo-European	Slovaks	Slovakia	164	7.3%	Rebala et al. 2013
		Indo-European	Poles	Poland	520	6.0%	Rebala et al. 2013
		Indo-European	Poles	Poland	202	5.9%	Myres et al. 2011
		Indo-European	Czechs	Czech Republic	87	5.7%	Myres et al. 2011
Mediterranean							
	Italic						
		Indo-European	Corsicans	Corsica	24	8.3%	Busby et al. 2012
Scandinavia							
	Germanic						
		Indo-European	Danes	Denmark	35	22.9%	Cruciani et al. 2011
		Indo-European	Norwegians	Norway	138	20.3%	Busby et al. 2012
		Indo-European	Danes	Denmark	110	18.2%	Myres et al. 2011
		Indo-European	Danes	Denmark	174	17.8%	Valverde et al. 2016
	Sami						
		Uralic	Saami	Sweden	35	5.7%	Myres et al. 2011
Western Europe							

Region	Language Group	Language Family	Population	Location	Sample Size	R1b-U106	Reference
	Celtic						
		Indo-European	Scots	Scotland	168	11.9%	Busby et al. 2012
		Indo-European	Welsh	Wales	129	10.1%	Busby et al. 2012
		Indo-European	Irish	Ireland	146	6.2%	Valverde et al. 2016
		Indo-European	Irish	Ireland	99	6.1%	Myres et al. 2011
		Indo-European	Irish	Ireland	377	5.0%	Busby et al. 2012
	Germanic						
		Indo-European	Frisians	Friesland	94	42.6%	Busby et al. 2012
		Indo-European	Dutch	Netherlands	87	36.8%	Myres et al. 2011
		Indo-European	Germans	Germans	102	27.5%	Busby et al. 2012
		Indo-European	English	England	102	25.5%	Myres et al. 2011
		Indo-European	Germans	Germany	349	23.8%	Rebala et al. 2013
		Indo-European	Austrians	Austria	18	22.2%	Myres et al. 2011
		Indo-European	English	England	337	22.0%	Busby et al. 2012
		Indo-European	Germans	Germany	321	20.9%	Myres et al. 2011
		Indo-European	Germans	Germany	77	20.8%	Cruciani et al. 2011
		Indo-European	Orkney Islanders	Orkney	112	17.0%	Busby et al. 2012
	Italic						
		Indo-European	Portuguese	Portugal (south)	49	8.2%	Cruciani et al. 2011
		Indo-European	French	France	93	7.5%	Myres et al. 2011
		Indo-European	Portuguese	Portugal, Lisbon	100	7.0%	Myres et al. 2011
		Indo-European	French	France	43	7.0%	Cruciani et al. 2011
		Indo-European	French	France	482	6.6%	Busby et al. 2012
		Indo-European	French	France	558	6.3%	Ramos-Luis, E. et al. 2014

Supplementary Table 18.6. The Contemporary Distribution of R1b-DF27.

Region	Language Group	Language Family	Population	Location	Sample Size	R1b-DF27	Reference
Western Europe							
	Isolate - Basque						
		Isolate - Basque	Basques	Basque Country of Spain	341	63.3%	Valverde et al. 2016
	Italic						
		Indo-European	Spanish	Spain	644	45.0%	Valverde et al. 2016
		Indo-European	Portuguese	Portugal	110	40.9%	Valverde et al. 2016
		Indo-European	French	France (Brittany)	145	17.2%	Valverde et al. 2016

Supplementary Table 18.7. The Contemporary Distribution of R1b-U152.

Region	Language Group	Language Family	Population	Location	Sample Size	R1b-U152	Reference
Eastern Europe							
	Italic						
		Indo-European	Romanians	Romania	59	5.1%	Busby et al. 2012
	South Slavic						
		Indo-European	Croatians	Croatia	108	6.5%	Myres et al. 2011
		Indo-European	Slovenes	Slovenia	102	5.9%	Myres et al. 2011
	Turkic						
		Turkic	Bashkir	Bashkortostan, Russia	586	9.0%	Myres et al. 2011
	Uralic						
		Uralic	Hungarians	Hungary	106	8.5%	Cruciani et al. 2011
	West Slavic						
		Indo-European	Poles	Poland	40	7.5%	Cruciani et al. 2011
		Indo-European	Slovenes	Slovenia	399	5.3%	Zupan et al. 2013
Mediterranean							
	Greek						
		Indo-European	Cretans	Crete	193	7.3%	Myres et al. 2011
	Italic						
		Indo-European	Corsicans	Corsica	24	41.7%	Busby et al. 2012
		Indo-European	Italians	Italy (north)	34	35.3%	Cruciani et al. 2011
		Indo-European	Corsicans	Corsica	28	32.1%	Cruciani et al. 2011
		Indo-European	Italians	Italy	282	20.2%	Myres et al. 2011
		Indo-European	Italians	Italy	884	19.3%	Boattini et al. 2013
		Indo-European	Italians	Italy (central)	262	17.6%	Cruciani et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	R1b-U152	Reference
		Indo-European	Italians	Italy	432	16.7%	Busby et al. 2012
		Indo-European	Sicilians	Sicily	258	13.6%	Busby et al. 2012
		Indo-European	Sicilians	Italy	86	11.6%	Cruciani et al. 2011
		Indo-European	Sardinians	Italy	270	10.4%	Cruciani et al. 2011
		Indo-European	Italians	Italy (south)	167	9.0%	Cruciani et al. 2011
		Indo-European	Sardinians	Sardinia	147	6.1%	Busby et al. 2012
Western Europe							
	Celtic						
		Indo-European	Welsh	Wales	129	7.0%	Busby et al. 2012
	Germanic						
		Indo-European	Germans	Germans	102	17.6%	Busby et al. 2012
		Indo-European	Germans	Germany	77	11.7%	Cruciani et al. 2011
		Indo-European	Germans	Germany	321	10.3%	Myres et al. 2011
		Indo-European	English	England	337	8.9%	Busby et al. 2012
		Indo-European	Germans	Germany	349	8.9%	Rebala et al. 2013
		Indo-European	English	England	102	8.8%	Myres et al. 2011
	Italic						
		Indo-European	French	France	43	20.9%	Cruciani et al. 2011
		Indo-European	French	France	93	15.1%	Myres et al. 2011
		Indo-European	French	France	558	14.2%	Ramos-Luis, E. et al. 2014
		Indo-European	French	France	482	13.3%	Busby et al. 2012
		Indo-European	Portuguese	Portugal	300	6.7%	Busby et al. 2012
		Indo-European	Spanish	Spain	359	6.4%	Busby et al. 2012
		Indo-European	Spanish	Spain	644	5.6%	Valverde et al. 2016

Supplementary Table 18.8. The Contemporary Distribution of R1b-M529.

Region	Language Group	Language Family	Population	Location	Sample Size	R1b-M529	Reference
Scandinavia							
	Germanic						
		Indo-European	Norwegians	Norway	138	8.0%	Busby et al. 2012
		Indo-European	Swedes	Sweden South (Malmö)	139	7.2%	Myres et al. 2011
		Indo-European	Danes	Denmark	110	6.4%	Myres et al. 2011
Western Europe							
	Celtic						
		Indo-European	Irish	Ireland	377	73.7%	Busby et al. 2012
		Indo-European	Irish	Ireland	99	58.6%	Myres et al. 2011
		Indo-European	Irish	Ireland	146	54.1%	Valverde et al. 2016
		Indo-European	Scots	Scotland	168	52.4%	Busby et al. 2012
		Indo-European	Welsh	Wales	129	45.7%	Busby et al. 2012
	Germanic						
		Indo-European	Orkney Islanders	Orkney	112	33.9%	Busby et al. 2012
		Indo-European	English	England	102	25.5%	Myres et al. 2011
		Indo-European	English	England	337	14.5%	Busby et al. 2012
		Indo-European	Dutch	Netherlands	87	5.7%	Myres et al. 2011
		Indo-European	Austrians	Austria	18	5.6%	Myres et al. 2011
		Indo-European	Frisians	Friesland	94	5.3%	Busby et al. 2012
	Italic						
		Indo-European	French	France (Brittany)	145	52.4%	Valverde et al. 2016
		Indo-European	French	France	482	16.0%	Busby et al. 2012
		Indo-European	French	France	93	8.6%	Myres et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	R1b-M529	Reference
		Indo-European	Spanish	Spain	359	7.8%	Busby et al. 2012
		Indo-European	Portuguese	Portugal	300	5.0%	Busby et al. 2012

Supplementary Table 18.9. The Contemporary Distribution of R1b-V88.

Region	Language Group	Language Family	Population	Location	Sample Size	R1b-V88	Reference
Eastern Europe							
	South Slavic						
		Indo-European	Sephardic Bulgarians	Bulgaria	20	5.0%	D'Atanasio et al. 2018
Middle East							
	Semitic						
		Afro-Asiatic	Jordanians	Jordan: Amman & Dead Sea	146	13.7%	Myres et al. 2011
North Africa							
	Berber						
		Afro-Asiatic	Mozabite Berbers	Algeria	67	11.9%	Cruciani et al. 2010
		Afro-Asiatic	Taureg	Libya	47	6.4%	Otoni et al. 2011
	Chadic						
		Afro-Asiatic	Hausa	Sudan	32	40.6%	Hassan et al. 2008
	Egyptian						
		Afro-Asiatic	Copts	Sudan	33	15.2%	Hassan et al. 2008
	Nilo-Saharan						
		Nilo-Saharan	Nubians	Sudan	39	10.3%	Hassan et al. 2008
	Semitic						
		Afro-Asiatic	Egyptian Berbers from Siwa	Egypt	93	26.0%	D'Atanasio et al. 2018
		Afro-Asiatic	Northern Egyptians	Egypt	52	6.0%	D'Atanasio et al. 2018
		Afro-Asiatic	Egyptians from Baharia	Egypt	41	5.0%	D'Atanasio et al. 2018
Sub-Saharan Africa							

Region	Language Group	Language Family	Population	Location	Sample Size	R1b-V88	Reference
	Berber						
		Afro-Asiatic	Tuareg	Niger	22	5.0%	D'Atanasio et al. 2018
	Chadic						
		Afro-Asiatic	Ouldeme	Cameroon (North)	24	96.0%	D'Atanasio et al. 2018
		Afro-Asiatic	Mafa	Cameroon (North)	9	88.0%	D'Atanasio et al. 2018
		Afro-Asiatic	Mafa	Northern Cameroon	8	87.5%	Cruciani et al. 2010
		Afro-Asiatic	Mada	Cameroon	17	82.4%	Cruciani et al. 2010
		Afro-Asiatic	Podowko	Cameroon (North)	5	80.0%	D'Atanasio et al. 2018
		Afro-Asiatic	Guiziga	Cameroon (North)	9	77.0%	D'Atanasio et al. 2018
		Afro-Asiatic	Mada	Cameroon (North)	10	70.0%	D'Atanasio et al. 2018
		Afro-Asiatic	Guidar	Cameroon (North)	9	67.0%	D'Atanasio et al. 2018
		Afro-Asiatic	Uldeme	Cameroon	22	63.7%	Cruciani et al. 2010
		Afro-Asiatic	Daba	Cameroon (North)	29	51.0%	D'Atanasio et al. 2018
		Afro-Asiatic	Other Chadic	Cameroon (North)	8	50.0%	D'Atanasio et al. 2018
		Afro-Asiatic	Mandara	Cameroon (North)	82	43.0%	D'Atanasio et al. 2018
		Afro-Asiatic	Masa	Northern Cameroon	7	28.6%	Cruciani et al. 2010
		Afro-Asiatic	Massa	Cameroon (North)	7	28.0%	D'Atanasio et al. 2018

Region	Language Group	Language Family	Population	Location	Sample Size	R1b-V88	Reference
		Afro-Asiatic	Giziga	Northern Cameroon	9	22.2%	Cruciani et al. 2010
		Afro-Asiatic	Other Chadic	Chad	5	20.0%	D'Atanasio et al. 2018
		Afro-Asiatic	Gidar	Northern Cameroon	9	11.1%	Cruciani et al. 2010
		Afro-Asiatic	Hausa	Nigeria (North)	9	11.0%	D'Atanasio et al. 2018
		Afro-Asiatic	Daba	Northern Cameroon	19	10.6%	Cruciani et al. 2010
		Afro-Asiatic	Hausa	Nigeria	10	10.1%	Cruciani et al. 2010
		Afro-Asiatic	Massa	Chad	11	9.0%	D'Atanasio et al. 2018
	Isolate - Laal						
		Isolate - Laal	Laal	Chad	26	23.1%	Haber et al. 2016
	Nilo-Saharan						
		Nilo-Saharan	Toubou	Chad	71	33.8%	Haber et al. 2016
		Nilo-Saharan	Sara	Chad	12	25.0%	D'Atanasio et al. 2018
		Nilo-Saharan	Sara	Chad	61	19.7%	Haber et al. 2016
		Nilo-Saharan	Ngambay	Chad	11	18.2%	Cruciani et al. 2010
		Nilo-Saharan	Ngambai	Chad	12	17.0%	D'Atanasio et al. 2018
		Nilo-Saharan	Kanuri	Northern Cameroon	7	14.3%	Cruciani et al. 2010
		Nilo-Saharan	Goulaye	Chad	7	14.0%	D'Atanasio et al. 2018
		Nilo-Saharan	Kanuri	Cameroon (North)	7	14.0%	D'Atanasio et al. 2018
		Nilo-Saharan	Gor	Chad	9	11.0%	D'Atanasio et al. 2018
		Nilo-Saharan	Ngambai	Cameroon (North)	11	9.0%	D'Atanasio et al. 2018
		Nilo-Saharan	Madjingay	Chad	15	7.0%	D'Atanasio et al. 2018

Region	Language Group	Language Family	Population	Location	Sample Size	R1b-V88	Reference
	Non-Bantoid						
		Niger-Congo	Toupouri	Cameroon (North)	31	71.0%	D'Atanasio et al. 2018
		Niger-Congo	Moundang	Cameroon (North)	21	67.0%	D'Atanasio et al. 2018
		Niger-Congo	Yoruba	Southern Nigeria	21	47.5%	Cruciani et al. 2010
		Niger-Congo	Moundang	Chad	5	40.0%	D'Atanasio et al. 2018
		Niger-Congo	Toupouri	Chad	13	39.0%	D'Atanasio et al. 2018
		Niger-Congo	Fula Zinder	Niger	16	31.3%	Bučková et al 2013
		Niger-Congo	Fula Diffa	Niger	13	30.8%	Bučková et al 2013
		Niger-Congo	Mundang	Northern Cameroon	21	28.6%	Cruciani et al. 2010
		Niger-Congo	Fali	Cameroon (North)	105	22.0%	D'Atanasio et al. 2018
		Niger-Congo	Fulbe	Cameroon (North)/Chad	79	19.0%	D'Atanasio et al. 2018
		Niger-Congo	Fulbe	Niger	7	14.3%	Cruciani et al. 2010
		Niger-Congo	Fulbe	Niger	7	14.0%	D'Atanasio et al. 2018
		Niger-Congo	Tali	Cameroon (North)	22	10.0%	D'Atanasio et al. 2018
		Niger-Congo	Fula Ader	Niger	20	10.0%	Bučková et al 2013
		Niger-Congo	Fali	Northern Cameroon	48	8.3%	Cruciani et al. 2010
		Niger-Congo	Fula Balatungur	Burkina Faso	13	7.7%	Bučková et al 2013
		Niger-Congo	Fulbe	Northern Cameroon	18	5.5%	Cruciani et al. 2010
		Niger-Congo	Yoruba	Nigeria (South)	20	5.0%	D'Atanasio et al. 2018

Region	Language Group	Language Family	Population	Location	Sample Size	R1b-V88	Reference
Semitic							
		Afro-Asiatic	Shuwa Arabs	Northern Cameroon	5	39.6%	Cruciani et al. 2010
		Afro-Asiatic	Shuwa Arabs	Cameroon (North)/Chad	6	33.0%	D'Atanasio et al. 2018

Supplementary Table 18.10. The Contemporary Distribution of R1b-CTS1078.

Region	Language Group	Language Family	Population	Location	Sample Size	R1b-CTS1078	Reference
Baltic							
	Finnic						
		Uralic	Karelians	Russia	194	0.52%	Myres et al. 2011
		Uralic	Estonians	Estonia	210	0.48%	Myres et al. 2011
Caucasus							
	Armenian						
		Indo-European	Armenians Adigei	Russia: Adygea	49	20.41%	Balanovsky et al. 2017
		Indo-European	Armenians Erzurum	Georgia	99	14.14%	Balanovsky et al. 2017
		Indo-European	Armenians Krasnodar	Russia: Krasnodar	117	11.97%	Balanovsky et al. 2017
		Indo-European	Armenians Don	Russia: Rostov and Myasnikovsky Regions	92	7.61%	Balanovsky et al. 2017
	Kartvelian						
		Kartvelian	Imereti	Georgia	62	4.84%	Balanovsky et al. 2017
	North Caucasian						
		North Caucasian	Bagvalals	Northeast Caucasus	28	67.86%	Myres et al. 2011
		North Caucasian	Tabasarans	Northeast Caucasus	43	37.21%	Myres et al. 2011
		North Caucasian	Lezgis	Northeast Caucasus	31	12.90%	Myres et al. 2011
		North Caucasian	Andis	Northeast Caucasus	49	6.12%	Myres et al. 2011
		North Caucasian	Abkhaz	South Caucasus	162	3.09%	Myres et al. 2011
		North Caucasian	Dargins	Northeast Caucasus	68	2.94%	Myres et al. 2011
		North Caucasian	Avars	Northeast Caucasus	42	2.38%	Myres et al. 2011
	Turkic						

Region	Language Group	Language Family	Population	Location	Sample Size	R1b-CTS1078	Reference
Eastern Europe		Turkic	Kумыкs	Northeast Caucasus	76	14.47%	Myres et al. 2011
		Turkic	Karachays	Northeast Caucasus	69	4.35%	Myres et al. 2011
		Turkic	Balkars	Northwest Caucasus	136	2.21%	Myres et al. 2011
		East Slavic					
		Indo-European	Belarusians	Belarus	205	3.41%	Myres et al. 2011
		Indo-European	Ukrainians	Ukraine	504	1.98%	Myres et al. 2011
		Indo-European	Russians	Russia	1037	1.93%	Myres et al. 2011
		Italic					
		Indo-European	Romanians	Romania	330	4.55%	Myres et al. 2011
		Permian					
		Uralic	Urdmurts	Russia	54	3.70%	Myres et al. 2011
		South Slavic					
		Indo-European	Kosovans	Kosovo	114	11.40%	Myres et al. 2011
		Indo-European	Slovenes	Slovenia	102	3.92%	Myres et al. 2011
		Indo-European	Croatians	Croatia	108	2.78%	Myres et al. 2011
	Indo-European	Herzegovinans	Herzegovina	141	1.42%	Myres et al. 2011	
	Indo-European	Serbians	Serbia	113	0.88%	Myres et al. 2011	
	Turkic						
	Turkic	Bashkir	Bashkortostan, Russia	586	21.50%	Myres et al. 2011	
	Turkic	Tatars	Bashkortostan, Russia	39	7.69%	Myres et al. 2011	
	Turkic	Tatars	Kazan, Russia	80	2.50%	Myres et al. 2011	
	Turkic	Chuvash	Russia	117	1.71%	Myres et al. 2011	
	Uralic						
	Uralic	Hungarians	Hungary	113	6.19%	Myres et al. 2011	

Region	Language Group	Language Family	Population	Location	Sample Size	R1b-CTS1078	Reference
West Slavic							
		Indo-European	Czechs	Czech Republic	87	5.75%	Myres et al. 2011
		Indo-European	Poles	Poland	202	5.45%	Myres et al. 2011
		Indo-European	Slovaks	Slovakia	276	3.62%	Myres et al. 2011
Mediterranean							
Greek							
		Indo-European	Greeks	Greece	185	8.11%	Myres et al. 2011
		Indo-European	Greek Cypriots	Cyprus	629	5.41%	Voskarides et al. 2016
		Indo-European	Cretans	Crete	193	4.15%	Myres et al. 2011
Italic							
		Indo-European	Italians	Italy	282	4.96%	Myres et al. 2011
Middle East							
Iranian							
		Indo-European	Iranians	Iran	150	4.67%	Myres et al. 2011
Turkic							
		Turkic	Turks	Turkey	611	11.62%	Myres et al. 2011
Northern Eurasia							
Permian							
		Uralic	Komi	Perm Oblast, Russia	61	11.48%	Myres et al. 2011
Scandinavia							
Germanic							
		Indo-European	Swedes	Sweden South (Malmö)	139	4.32%	Myres et al. 2011
		Indo-European	Danes	Denmark	110	1.82%	Myres et al. 2011
Western Europe							

Region	Language Group	Language Family	Population	Location	Sample Size	R1b-CTS1078	Reference
	Celtic						
		Indo-European	Irish	Ireland	99	1.01%	Myres et al. 2011
	Germanic						
		Indo-European	Germans	Germany	321	0.62%	Myres et al. 2011
	Italic						
		Indo-European	French	France	93	1.08%	Myres et al. 2011
		Indo-European	Spanish	Spain	454	0.66%	Myres et al. 2011

Supplementary Table 18.11. The Contemporary Distribution of R1a-Z282.

Region	Language Group	Language Family	Population	Location	Sample Size	R1a-Z282	Reference
Baltic							
	Finnic						
		Uralic	Karelians	Russia	140	40.0%	Underhill et al. 2010; Underhill et al. 2015
		Uralic	Veps	Russia	39	35.9%	Underhill et al. 2010; Underhill et al. 2015
		Uralic	Estonians	Estonia	236	30.9%	Underhill et al. 2010; Underhill et al. 2015
Caucasus							
	Armenian						
		Indo-European	Armenians Don	Russia: Rostov and Myasnikovsky Regions	92	13.0%	Balanovsky et al. 2017
	North Caucasian						
		North Caucasian	Abazins	Caucasus	89	12.4%	Underhill et al. 2010; Underhill et al. 2015
		North Caucasian	Adyghe	Caucasus	160	5.0%	Underhill et al. 2010; Underhill et al. 2015
	Turkic						
		Turkic	Karachays	Caucasus	77	10.4%	Underhill et al. 2010; Underhill et al. 2015
		Turkic	Kumyks	Daghestan	21	9.5%	Karafet et al. 2016
		Turkic	Nogais, Kara	Caucasus Russia	76	7.9%	Yunubayev et al. 2012
		Turkic	Nogais	Caucasus	87	6.9%	Underhill et al. 2010; Underhill et al. 2015
		Turkic	Kumyks	Caucasus	76	6.6%	Underhill et al. 2010; Underhill et al. 2015

Central Asia

Region	Language Group	Language Family	Population	Location	Sample Size	R1a-Z282	Reference
	Turkic						
		Turkic	Karakalpak	Uzbekistan	100	8.0%	Zhabagin et al. 2017
Eastern Europe							
	East Slavic						
		Indo-European	Belarusians	Belarus	364	55.8%	Underhill et al. 2010; Kushniarevich et al. 2013; Underhill et al. 2015
		Indo-European	Russians	Russia	433	53.1%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Ukrainians	Ukraine	498	47.0%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Belarusians	Belarus	565	14.5%	Kushniarevich et al. 2013
		Indo-European	Ukrainians	Lviv Region, Ukraine	154	13.6%	Mielnik-Sikorska et al. 2013.
	Italic						
		Indo-European	Romanians	Romania	335	14.6%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Moldavians	Moldavia	125	12.8%	Varzari et al. 2013
	Permian						
		Uralic	Udmurt	Russia	54	14.8%	Underhill et al. 2010; Underhill et al. 2015
	South Slavic						
		Indo-European	Croatians	Croatia	108	28.7%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Croatians	Croatia	720	25.6%	Sarac et al. 2016
		Indo-European	Bosnians	Bosnia	78	19.2%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Bulgarians	Bulgaria	808	16.3%	Karachanak et al. 2013; Underhill et al. 201

Region	Language Group	Language Family	Population	Location	Sample Size	R1a-Z282	Reference
		Indo-European	Macedonians	Macedonia	79	13.9%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Serbians	Serbia	113	13.3%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Herzegovinans	Herzegovina	141	11.3%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Bulgarians	Bulgaria	808	7.5%	Karachanak et al. 2013
		Indo-European	Serbians	Serbia	103	5.8%	Regueiro et al. 2012
	Turkic						
		Turkic	Tatars	Tatarstan, Russia	66	24.2%	Underhill et al. 2010; Underhill et al. 2015
		Turkic	Chuvash	Russia	117	19.7%	Underhill et al. 2010; Underhill et al. 2015
		Turkic	Tatars	Russia, Bashkortostan	39	15.4%	Underhill et al. 2010; Underhill et al. 2015
	Uralic						
		Uralic	Mari	Russia	51	29.4%	Underhill et al. 2010; Underhill et al. 2015
		Uralic	Hungarians	Hungary	113	15.9%	Underhill et al. 2010; Underhill et al. 2015
	West Slavic						
		Indo-European	Poles	Poland	202	50.0%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Slovaks	Slovakia	257	45.5%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Czechs	Czech Republic	53	37.7%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Poles	Poland	520	27.5%	Rebala et al. 2013

Region	Language Group	Language Family	Population	Location	Sample Size	R1a-Z282	Reference
		Indo-European	Slovenes	Slovenia	180	20.0%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Slovaks	Slovakia	164	15.9%	Rebala et al. 2013
Mediterranean	Greek						
		Indo-European	Greeks	Greece	171	10.5%	King et al. 2008; Underhill et al. 2015
		Indo-European	Cretans	Crete	361	7.5%	Martinez et al. 2007; King et al. 2008; Underhill et al. 2015
Middle East	Semitic						
		Afro-Asiatic	Bedouins	Middle East	34	14.7%	Underhill et al. 2015
Northern Eurasia	Permian						
		Uralic	Komi	Russia	112	21.4%	Underhill et al. 2010; Underhill et al. 2015
Scandinavia	Germanic						
		Indo-European	Norwegians	Norway	118	21.2%	Underhill et al. 2015
		Indo-European	Swedes	Sweden (Malmö)	141	9.9%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Danes	Denmark	112	9.8%	Underhill et al. 2010; Underhill et al. 2015
Western Europe	Germanic						
		Indo-European	Austrians	Austria	19	15.8%	Underhill et al. 2010; Underhill et al. 2015

Region	Language Group	Language Family	Population	Location	Sample Size	R1a-Z282	Reference
		Indo-European	Germans	Germany	322	12.4%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Germans	Germany	349	6.6%	Rebala et al. 2013
	West Slavic						
		Indo-European	Sorbs	Germany	123	56.9%	Rebala et al. 2013

Supplementary Table 18.12. The Contemporary Distribution of R1a-M458.

Region	Language Group	Language Family	Population	Location	Sample Size	R1a-M458	Reference
Baltic							
	Finnic						
		Uralic	Veps	Russia	39	15.4%	Underhill et al. 2010; Underhill et al. 2015
		Uralic	Karelians	Russia	140	13.6%	Underhill et al. 2010; Underhill et al. 2015
		Uralic	Estonians	Estonia	236	5.1%	Underhill et al. 2010; Underhill et al. 2015
Caucasus							
	Turkic						
		Turkic	Nogais, Kara	Caucasus Russia	76	7.9%	Yunubayev et al. 2012
		Turkic	Karachays	Caucasus	77	7.8%	Underhill et al. 2010; Underhill et al. 2015
Central Asia							
	Turkic						
		Turkic	Karakalpak	Uzbekistan	100	8.0%	Zhabagin et al. 2017
Eastern Europe							
	East Slavic						
		Indo-European	Belarusians	Belarus	364	15.4%	Underhill et al. 2010; Kushniarevich et al. 2013; Underhill et al. 2015
		Indo-European	Belarusians	Belarus	565	14.5%	Kushniarevich et al. 2013
		Indo-European	Ukrainians	Lviv Region, Ukraine	154	13.6%	Mielnik-Sikorska et al. 2013.
		Indo-European	Ukrainians	Ukraine	498	13.5%	Underhill et al. 2010; Underhill et al. 2015

Region	Language Group	Language Family	Population	Location	Sample Size	R1a-M458	Reference
		Indo-European	Russians	Russia	433	12.5%	Underhill et al. 2010; Underhill et al. 2015
	Italic						
		Indo-European	Moldavians	Moldavia	125	12.8%	Varzari et al. 2013
		Indo-European	Romanians	Romania	335	5.4%	Underhill et al. 2010; Underhill et al. 2015
	South Slavic						
		Indo-European	Croatians	Croatia	108	19.4%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Bulgarians	Bulgaria	808	7.5%	Karachanak et al. 2013
		Indo-European	Bulgarians	Bulgaria	808	7.4%	Karachanak et al. 2013; Underhill et al. 201
		Indo-European	Serbians	Serbia	103	5.8%	Regueiro et al. 2012
	West Slavic						
		Indo-European	Czechs	Czech Republic	53	30.2%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Poles	Poland	520	27.5%	Rebala et al. 2013
		Indo-European	Poles	Poland	202	25.2%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Slovaks	Slovakia	257	21.4%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Slovaks	Slovakia	164	15.9%	Rebala et al. 2013
Western Europe							
	Germanic						
		Indo-European	Germans	Germany	349	6.6%	Rebala et al. 2013
		Indo-European	Austrians	Austria	19	5.3%	Underhill et al. 2010; Underhill et al. 2015

Region	Language Group	Language Family	Population	Location	Sample Size	R1a-M458	Reference
West Slavic							
		Indo-European	Sorbs	Germany	123	56.9%	Rebala et al. 2013

Supplementary Table 18.13. The Contemporary Distribution of R1a-M558.

Region	Language Group	Language Family	Population	Location	Sample Size	R1a-M558	Reference
Baltic							
	Finnic						
		Uralic	Estonians	Estonia	236	19.1%	Underhill et al. 2010; Underhill et al. 2015
		Uralic	Veps	Russia	39	15.4%	Underhill et al. 2010; Underhill et al. 2015
		Uralic	Karelians	Russia	140	10.0%	Underhill et al. 2010; Underhill et al. 2015
Caucasus							
	Armenian						
		Indo-European	Armenians Don	Russia: Rostov and Myasnikovsky Regions	92	13.0%	Balanovsky et al. 2017
	North Caucasian						
		North Caucasian	Abazins	Caucasus	89	7.9%	Underhill et al. 2010; Underhill et al. 2015
	Turkic						
		Turkic	Kumyks	Caucasus	76	5.3%	Underhill et al. 2010; Underhill et al. 2015
Eastern Europe							
	East Slavic						
		Indo-European	Russians	Russia	433	25.6%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Belarusians	Belarus	364	22.5%	Underhill et al. 2010; Kushniarevich et al. 2013; Underhill et al. 2015
		Indo-European	Ukrainians	Ukraine	498	18.5%	Underhill et al. 2010; Underhill et al. 2015

Region	Language Group	Language Family	Population	Location	Sample Size	R1a-M558	Reference
Italic							
		Indo-European	Romanians	Romania	335	5.4%	Underhill et al. 2010; Underhill et al. 2015
Permian							
		Uralic	Udmurt	Russia	54	11.1%	Underhill et al. 2010; Underhill et al. 2015
South Slavic							
		Indo-European	Croatians	Croatia	720	19.4%	Sarac et al. 2016
		Indo-European	Bosnians	Bosnia	78	11.5%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Herzegovinans	Herzegovina	141	9.9%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Macedonians	Macedonia	79	7.6%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Serbians	Serbia	113	7.1%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Bulgarians	Bulgaria	808	7.1%	Karachanak et al. 2013; Underhill et al. 201
Turkic							
		Turkic	Tatars	Tatarstan, Russia	66	15.2%	Underhill et al. 2010; Underhill et al. 2015
		Turkic	Tatars	Russia, Bashkortostan	39	12.8%	Underhill et al. 2010; Underhill et al. 2015
		Turkic	Chuvash	Russia	117	11.1%	Underhill et al. 2010; Underhill et al. 2015
Uralic							
		Uralic	Mari	Russia	51	23.5%	Underhill et al. 2010; Underhill et al. 2015

Region	Language Group	Language Family	Population	Location	Sample Size	R1a-M558	Reference
		Uralic	Hungarians	Hungary	113	11.5%	Underhill et al. 2010; Underhill et al. 2015
	West Slavic						
		Indo-European	Slovaks	Slovakia	257	22.2%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Poles	Poland	202	19.3%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Slovenes	Slovenia	180	17.2%	Underhill et al. 2010; Underhill et al. 2015
	Mediterranean						
	Greek						
		Indo-European	Greeks	Greece	171	7.0%	King et al. 2008; Underhill et al. 2015
Northern Eurasia							
	Permian						
		Uralic	Komi	Russia	112	9.8%	Underhill et al. 2010; Underhill et al. 2015
Western Europe							
	Germanic						
		Indo-European	Austrians	Austria	19	10.5%	Underhill et al. 2010; Underhill et al. 2015

Supplementary Table 18.14. The Contemporary Distribution of R1a-Z93.

Region	Language Group	Language Family	Population	Location	Sample Size	R1a-Z93	Reference
Baltic							
	Finnic						
		Uralic	Estonians	Estonia	236	1.7%	Underhill et al. 2010; Underhill et al. 2015
		Uralic	Karelians	Russia	140	0.7%	Underhill et al. 2010; Underhill et al. 2015
Caucasus							
	Armenian						
		Indo-European	Armenians	Caucasus	427	1.9%	Underhill et al. 2010; Underhill et al. 2015
	Iranian						
		Indo-European	Tats	Daghestan	24	25.0%	Karafet et al. 2016
		Indo-European	Ossetians	Caucasus	155	1.3%	Underhill et al. 2010; Underhill et al. 2015
	Kartvelian						
		Kartvelian	Georgians	Georgia	67	6.0%	Underhill et al. 2010; Underhill et al. 2015
	North Caucasian						
		North Caucasian	Abazins	Caucasus	89	12.4%	Underhill et al. 2010; Underhill et al. 2015
		North Caucasian	Cherkessians	Caucasus	125	9.6%	Underhill et al. 2010; Underhill et al. 2015
		North Caucasian	Kabardians	Caucasus	141	9.2%	Underhill et al. 2010; Underhill et al. 2015
		North Caucasian	Laks	Daghestan	22	9.1%	Karafet et al. 2016
		North Caucasian	Adyghe	Caucasus	160	7.5%	Underhill et al. 2010; Underhill et al. 2015

Region	Language Group	Language Family	Population	Location	Sample Size	R1a-Z93	Reference
		North Caucasian	Chamalals	Caucasus	27	7.4%	Underhill et al. 2010; Underhill et al. 2015
		North Caucasian	Abkhaz	Caucasus	162	5.6%	Underhill et al. 2010; Underhill et al. 2015
		North Caucasian	Bagvalals	Caucasus	28	3.6%	Underhill et al. 2010; Underhill et al. 2015
		North Caucasian	Ingush	Caucasus	105	2.9%	Underhill et al. 2010; Underhill et al. 2015
		North Caucasian	Avars	Caucasus	42	2.4%	Underhill et al. 2010; Underhill et al. 2015
		North Caucasian	Tabasarans	Caucasus	43	2.3%	Underhill et al. 2010; Underhill et al. 2015
		North Caucasian	Andis	Caucasus	49	2.0%	Underhill et al. 2010; Underhill et al. 2015
	Turkic						
		Turkic	Balkars	Caucasus	136	25.0%	Underhill et al. 2010; Underhill et al. 2015
		Turkic	Karachays	Caucasus	69	24.6%	Underhill et al. 2010; Underhill et al. 2015
		Turkic	Kumyks	Daghestan	21	14.3%	Karafet et al. 2016
		Turkic	Kumyks	Caucasus	76	7.9%	Underhill et al. 2010; Underhill et al. 2015
		Turkic	Karachays	Caucasus	77	6.5%	Underhill et al. 2010; Underhill et al. 2015
		Turkic	Nogais	Caucasus	87	5.7%	Underhill et al. 2010; Underhill et al. 2015
Central Asia							
	Iranian						
		Indo-European	Pashtuns	Afghanistan	84	52.4%	Di Cristofaro et al. 2013; Underhill et al. 2015

Region	Language Group	Language Family	Population	Location	Sample Size	R1a-Z93	Reference
		Indo-European	Tajik	Afghanistan	140	24.3%	Di Cristofaro et al. 2013; Underhill et al. 2015
		Indo-European	Hazara	Afghanistan	76	9.2%	Di Cristofaro et al. 2013; Underhill et al. 2015
	Turkic						
		Turkic	Kyrgyz	Kyrgyzstan	232	46.6%	Underhill et al. 2010; Underhill et al. 2015
		Turkic	Uzbeks	Afghanistan	125	23.2%	Di Cristofaro et al. 2013; Underhill et al. 2015
		Turkic	Turkmen	Afghanistan	74	13.5%	Di Cristofaro et al. 2013; Underhill et al. 2015
		Turkic	Kazakhs	Kazakhstan	133	1.5%	Underhill et al. 2010; Underhill et al. 2015
East Asia							
	Mongolic						
		Mongolic	Mongols	Mongolia	160	1.3%	Di Cristofaro et al. 2013; Underhill et al. 2015
Eastern Europe							
	East Slavic						
		Indo-European	Russians	Russia	433	0.2%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Ukrainians	Ukraine	498	0.2%	Underhill et al. 2010; Underhill et al. 2015
	Permian						
		Uralic	Udmurt	Russia	54	1.9%	Underhill et al. 2010; Underhill et al. 2015
	South Slavic						
		Indo-European	Serbians	Serbia	113	1.8%	Underhill et al. 2010; Underhill et al. 2015

Region	Language Group	Language Family	Population	Location	Sample Size	R1a-Z93	Reference
	Turkic	Indo-European	Bulgarians	Bulgaria	808	0.7%	Karachanak et al. 2013; Underhill et al. 201
		Turkic	Tatars	Tatarstan, Russia	66	13.6%	Underhill et al. 2010; Underhill et al. 2015
	Uralic	Uralic	Mari	Russia	51	2.0%	Underhill et al. 2010; Underhill et al. 2015
		Uralic	Hungarians	Hungary	113	1.8%	Underhill et al. 2010; Underhill et al. 2015
Mediterranean	Greek	Indo-European	Slovenes	Slovenia	180	1.1%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Slovaks	Slovakia	257	0.8%	Underhill et al. 2010; Underhill et al. 2015
	Indo-European	Cretans	Crete	361	1.9%	Martinez et al. 2007; King et al. 2008; Underhill et al. 2015	
		Greek Cypriots	Cyprus	629	1.1%	Voskarides et al. 2016	
		Greeks	Greece	171	0.6%	King et al. 2008; Underhill et al. 2015	
	Italic	Indo-European	Italians	Italy	287	1.0%	Underhill et al. 2010; Underhill et al. 2015
		Iranian					

Middle East

Region	Language Group	Language Family	Population	Location	Sample Size	R1a-Z93	Reference
		Indo-European	Iranians	Iran	1363	10.7%	Regueiro et al. 2006; Underhill et al. 2010; Grugni et al. 2012; Di Cristofaro et al. 2013; Underhill et al. 2015
	Semitic	Indo-European	Kurds	Turkey	30	6.7%	Underhill et al. 2015
		Afro-Asiatic	Omani	Oman	121	7.4%	Luis et al. 2004; Underhill et al. 2015
		Afro-Asiatic	Emirati	United Arab Emirates	164	7.3%	Cadenas et al. 2008; Underhill et al. 2015
		Afro-Asiatic	Qatari	Qatar	72	6.9%	Cadenas et al. 2008; Underhill et al. 2015
		Afro-Asiatic	Druze	Middle East	307	1.3%	Underhill et al. 2015
	Turkic						
		Turkic	Azerbaijani	Iran	297	10.4%	Underhill et al. 2015
		Turkic	Turks	Turkey	522	3.6%	Cinnioglu et al. 2004; Underhill et al. 2015
North Africa							
	Semitic						
		Afro-Asiatic	Egyptians	Egypt	147	0.7%	Luis et al. 2004; Underhill et al. 2015
Northern Eurasia							
	Permian						
		Uralic	Komi	Russia	112	0.9%	Underhill et al. 2010; Underhill et al. 2015
	Turkic						
		Turkic	Altai (Altaians, Altay)	Russia	61	37.7%	Underhill et al. 2010; Underhill et al. 2015

Region	Language Group	Language Family	Population	Location	Sample Size	R1a-Z93	Reference
		Turkic	Khakas	Russia	76	32.9%	Underhill et al. 2010; Underhill et al. 2015
		Turkic	Tuvans	Russia	103	6.8%	Underhill et al. 2010; Underhill et al. 2015
Scandinavia							
	Germanic						
		Indo-European	Swedes	Sweden (Malmö)	141	0.7%	Underhill et al. 2010; Underhill et al. 2015
South Asia							
	Dravidian						
		Dravidian	Iyengar	South India	30	30.0%	Sengupta et al. 2006
		Dravidian	Iyer	South India	29	27.6%	Sengupta et al. 2006
		Dravidian	Pallan	South India	29	24.1%	Sengupta et al. 2006
		Dravidian	Brahui	South Pakistan	25	24.0%	Sengupta et al. 2006
		Dravidian	Brahui	Pakistan	25	24.0%	Di Cristofaro et al. 2013
		Dravidian	Mukkuvar	Tamil Nadu, India	17	23.5%	Arunkumar et al. 2012
		Dravidian	Tamil Jains	Tamil Nadu, India	100	20.0%	Arunkumar et al. 2012
		Dravidian	Lingayat	Southwest India	101	19.8%	Chennakrishnaiah et al. 2013
		Dravidian	Kota	Tamil Nadu, India	62	19.4%	Arunkumar et al. 2012
		Dravidian	Naikpod	Andra Pradesh	68	19.1%	Thanseem et al. 2006
		Dravidian	Mullukurumba	Tamil Nadu, India	29	17.2%	Arunkumar et al. 2012
		Dravidian	Valayar	Tamil Nadu, India	95	15.8%	Arunkumar et al. 2012
		Dravidian	Maravar	Tamil Nadu, India	80	15.0%	Arunkumar et al. 2012
		Dravidian	Vanniyar	Tamil Nadu, India	21	14.3%	Arunkumar et al. 2012
		Dravidian	Ambalakarar	South India	29	13.8%	Sengupta et al. 2006
		Dravidian	Vellalar	South India	31	12.9%	Sengupta et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	R1a-Z93	Reference
		Dravidian	Kota	South India	16	12.5%	Sengupta et al. 2006
		Dravidian	Pardhan	Andra Pradesh	128	12.5%	Thanseem et al. 2006
		Dravidian	Oraon	Northeastern India	110	11.8%	Borkar et al. 2011
		Dravidian	Thoda	Tamil Nadu, India	26	11.5%	Arunkumar et al. 2012
		Dravidian	Paravar	Tamil Nadu, India	27	11.1%	Arunkumar et al. 2012
		Dravidian	Yadhava	Tamil Nadu, India	107	10.3%	Arunkumar et al. 2012
		Dravidian	Nadar TNV	Tamil Nadu, India	59	10.2%	Arunkumar et al. 2012
		Dravidian	Pallar	Tamil Nadu, India	51	9.8%	Arunkumar et al. 2012
		Dravidian	Parayar NTN	Tamil Nadu, India	52	9.6%	Arunkumar et al. 2012
		Dravidian	Vanniyar NTN	Tamil Nadu, India	96	9.4%	Arunkumar et al. 2012
		Dravidian	Parayar	Tamil Nadu, India	24	8.3%	Arunkumar et al. 2012
		Dravidian	Vanniyar	South India	25	8.0%	Sengupta et al. 2006
		Dravidian	Vokkaliga	Southwest India	102	7.8%	Chennakrishnaiah et al. 2013
		Dravidian	Konda Reddy	South India	30	6.7%	Sengupta et al. 2006
		Dravidian	Kanikaran	Tamil Nadu, India	17	5.9%	Arunkumar et al. 2012
		Dravidian	Betta Kurumba	Tamil Nadu, India	17	5.9%	Arunkumar et al. 2012
		Dravidian	Kurumba	Tamil Nadu, India	35	5.7%	Arunkumar et al. 2012
		Dravidian	Ezhava	Tamil Nadu, India	95	5.3%	Arunkumar et al. 2012
		Dravidian	Kattunaickan	Tamil Nadu, India	46	4.3%	Arunkumar et al. 2012
		Dravidian	Nadar Cape	Tamil Nadu, India	98	4.1%	Arunkumar et al. 2012
		Dravidian	Piramalai Kallar	Tamil Nadu, India	53	3.8%	Arunkumar et al. 2012
		Dravidian	Oraon	West Bengal	31	3.2%	Debnath et al. 2011
		Dravidian	Irula	Tamil Nadu, India	80	2.5%	Arunkumar et al. 2012

Indo-Aryan

Region	Language Group	Language Family	Population	Location	Sample Size	R1a-Z93	Reference
		Indo-European	West Bengal Brahmin	East India	18	72.2%	Sengupta et al. 2006
		Indo-European	Pavagadhi Chaudhari	Gujarat	29	62.1%	Khurana et al. 2014
		Indo-European	Sindhi	South Pakistan	21	52.4%	Sengupta et al. 2006
		Indo-European	Sindhi	Pakistan	21	52.4%	Di Cristofaro et al. 2013
		Indo-European	Koknasth Brahmin	West India	25	48.0%	Sengupta et al. 2006
		Indo-European	Bengali	West Bengal	54	40.7%	Debnath et al. 2011
		Indo-European	Chamar	Northern India	18	38.9%	Sengupta et al. 2006
		Indo-European	Uttar Pradesh Brahmin	Northern India	14	35.7%	Sengupta et al. 2006
		Indo-European	Andh	Andra Pradesh	54	31.5%	Thanseem et al. 2006
		Indo-European	Rajput	Northern India	29	31.0%	Sengupta et al. 2006
		Indo-European	Makrani	Pakistan	20	30.0%	Di Cristofaro et al. 2013
		Indo-European	Thakur	Maharashtra	48	29.2%	Thangaraj et al. 2010
		Indo-European	Konkana	Gujarat	24	29.2%	Khurana et al. 2014
		Indo-European	Rajbanshi	Northeastern India	45	28.9%	Borkar et al. 2011
		Indo-European	Mahadeo Koli	Maharashtra	50	26.0%	Thangaraj et al. 2010
		Indo-European	Paharia	Northeastern India	100	23.0%	Borkar et al. 2011
		Indo-European	Nav Buddha	West India	14	21.4%	Sengupta et al. 2006
		Indo-European	Kalash	Pakistan	19	21.1%	Sengupta et al. 2006
		Indo-European	Kalash	Pakistan	20	20.0%	Di Cristofaro et al. 2013
		Indo-European	Halba	Central India	21	19.0%	Sengupta et al. 2006
		Indo-European	Dhodia	Gujarat	63	19.0%	Khurana et al. 2014
		Indo-European	Rajbanshi	West Bengal	51	17.6%	Debnath et al. 2011

Region	Language Group	Language Family	Population	Location	Sample Size	R1a-Z93	Reference
		Indo-European	Vasava	Gujarat	24	12.5%	Khurana et al. 2014
		Indo-European	Valvi Chaudhari	Gujarat	32	12.5%	Khurana et al. 2014
		Indo-European	Maratha	West India	20	10.0%	Sengupta et al. 2006
		Indo-European	Dubla	Gujarat	42	9.5%	Khurana et al. 2014
		Indo-European	Tharu	Nepal	171	8.8%	Fornarino et al. 2009
		Indo-European	Tharu	Nepal	170	8.2%	Fornarino et al. 2009; Underhill et al. 2015
		Indo-European	Nana Chaudhari	Gujarat	25	8.0%	Khurana et al. 2014
		Indo-European	Mahishya	East India	13	7.7%	Sengupta et al. 2006
		Indo-European	Mota Chaudhari	Gujarat	27	7.4%	Khurana et al. 2014
		Indo-European	Gamit	Gujarat	18	5.6%	Khurana et al. 2014
		Indo-European	Sourashtra	Tamil Nadu, India	40	5.0%	Arunkumar et al. 2012
		Indo-European	Brahacharanam	Tamil Nadu, India	21	4.8%	Arunkumar et al. 2012
		Indo-European	Chakma	Bangladesh	89	1.1%	Gazi et al. 2013
	Iranian						
		Indo-European	Pathans	Pakistan	270	49.3%	Lee et al. 2014
		Indo-European	Pathans	North Pakistan	20	40.0%	Sengupta et al. 2006
		Indo-European	Pathans	Pakistan	20	40.0%	Di Cristofaro et al. 2013
		Indo-European	Baloch	Pakistan	25	28.0%	Di Cristofaro et al. 2013
		Indo-European	Baloch	South Pakistan	25	28.0%	Sengupta et al. 2006
	Isolate - Burushaski						
		Isolate - Burushaski	Burusho	North Pakistan	20	10.0%	Sengupta et al. 2006
		Isolate - Burushaski	Burusho	Pakistan	20	10.0%	Di Cristofaro et al. 2013
	Munda						
		Austro-Asiatic	Agharia	East India	10	10.0%	Sengupta et al. 2006

Region	Language Group	Language Family	Population	Location	Sample Size	R1a-Z93	Reference
		Austro-Asiatic	Ho	Northeastern India	28	3.6%	Borkar et al. 2011
		Austro-Asiatic	Kol	West Bengal	62	3.2%	Debnath et al. 2011
		Austro-Asiatic	Birhor	Northeastern India	100	3.0%	Borkar et al. 2011
		Austro-Asiatic	Kharia	West Bengal	34	2.9%	Debnath et al. 2011
		Austro-Asiatic	Munda	Northeastern India	94	2.1%	Borkar et al. 2011
		Austro-Asiatic	Santhal	West Bengal	51	2.0%	Debnath et al. 2011
		Austro-Asiatic	Santhal	Northeastern India	90	1.1%	Borkar et al. 2011
	Tibeto-Burman						
		Sino-Tibetan	Newar	Nepal	66	25.8%	Gayden et al. 2007
		Sino-Tibetan	Dhimal	West Bengal	36	8.3%	Debnath et al. 2011
		Sino-Tibetan	Jamatia	Northeast India	30	6.7%	Sengupta et al. 2006
		Sino-Tibetan	Mech	Northeastern India	20	5.0%	Borkar et al. 2011
		Sino-Tibetan	Lachung	Northeastern India	20	5.0%	Borkar et al. 2011
		Sino-Tibetan	Tripuri	Northeast India	21	4.8%	Sengupta et al. 2006
		Sino-Tibetan	Tamang	Nepal	45	4.4%	Gayden et al. 2007
		Sino-Tibetan	Marma	Bangladesh	60	3.3%	Gazi et al. 2013
	Western Europe						
	Celtic						
		Indo-European	Irish	Ireland	100	1.0%	Underhill et al. 2010; Underhill et al. 2015
	Germanic						
		Indo-European	Austrians	Austria	19	10.5%	Underhill et al. 2010; Underhill et al. 2015
		Indo-European	Germans	Germany	322	0.6%	Underhill et al. 2010; Underhill et al. 2015

Supplementary Table 18.15. The Distribution of R-M207 Mutations in Paleolithic Remains.

Region	Mutation	Master ID	Country	Location	Death	Reference
Northern Eurasia	R-M207	MA1	Russia	Mal'ta	24305	Raghavan et al. 2014; Reich Dataset V42.4 (2020)
Mediterranean	R1b-L278	Villabruna	Italy	Veneto, Villabruna	13980	Fu et al. 2016; Reich Dataset V42.4 (2020)

Supplementary Table 18.16. The Distribution of R1a-M420 Mutations in Mesolithic and Neolithic Remains.

Region	Mutation	Master ID	Culture 2	Country	Location	Death	Reference
Baltic							
	R1a-M420	I0061	Mesolithic	Russia	Karelia, Yuzhnyy Oleni Ostrov	8280	Fu et al. 2016; Reich Dataset V42.4 (2020)
	R1a-M420	I0061	Mesolithic	Russia	Karelia, Yuzhnyy Oleni Ostrov	8280	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	R1a-M420	Gyvakarai1_10bp	Neolithic	Lithuania	Gyvakarai	4495	Mittnik et al. 2018; Reich Dataset V42.4 (2020)
	R1a-Z283	MA973	Neolithic	Estonia	Kursi, Jõgeva	4410	Mittnik et al. 2018; Reich Dataset V42.4 (2020)
	R1a-M420	Spiginas2	Neolithic	Lithuania	Spiginas	3890	Mittnik et al. 2018; Reich Dataset V42.4 (2020)
Eastern Europe							
	R1a-M420	I1819	Mesolithic	Ukraine	Vasil'evka	10643	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	R1a-M420	I5876	Mesolithic	Ukraine	Dereivka I	8822	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	R1a-M420	I0433	Neolithic	Russia	Samara Oblast, Volga River Valley, Khvalynsk II	6566	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	R1a-M420	I6561	Neolithic	Ukraine	Alexandria	5960	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	R1a-M420	poz81	Neolithic	Poland	Oblaczkowo	4705	Malmstrom et al. 2019; Reich Dataset V42.4 (2020)
	R1a-M420	I7207	Neolithic	Czech Republic	Radovesice	4400	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R1a-M420	I7208	Neolithic	Czech Republic	Radovesice	4330	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)

Region	Mutation	Master ID	Culture 2	Country	Location	Death	Reference
	R1a-M420	I7209	Neolithic	Czech Republic	Radovesice	4283	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R1a-M420	I7280	Neolithic	Czech Republic	Brandýsek	4200	Olalde et al. 2018; Reich Dataset V42.4 (2020)
	R1a-M420	I7279	Neolithic	Czech Republic	Brandýsek	4200	Olalde et al. 2018; Reich Dataset V42.4 (2020)
Scandinavia							
	R1a-M420	RISE61	Neolithic	Denmark	Kyndelöse	4622	Allentoft et al. 2015; Reich Dataset V42.4 (2020)
	R1a-M420	Olsund_new	Neolithic	Sweden	Ölsund, Hälsingland	4306	Mittnik et al. 2018; Reich Dataset V42.4 (2020)
Western Europe							
	R1a-M420	RISE446	Neolithic	Germany	Bergrheinfeld	4597	Allentoft et al. 2015; Reich Dataset V42.4 (2020)
	R1a-M420	I0104	Neolithic	Germany	Esperstedt	4378	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	R1a-M420	I1532	Neolithic	Germany	Esperstedt	4225	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	R1a-M420	I1540	Neolithic	Germany	Esperstedt	4225	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	R1a-M420	I1538	Neolithic	Germany	Esperstedt	4225	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	R1a-M420	I1544	Neolithic	Germany	Esperstedt	4225	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	R1a-M420	I1536	Neolithic	Germany	Esperstedt	4225	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	R1a-M420	I1541	Neolithic	Germany	Esperstedt	4225	Mathieson et al. 2015; Reich Dataset V42.4 (2020)

Supplementary Table 18.17. The Distribution of R1b-M343 Mutations in Mesolithic and Neolithic Remains.

Region	Mutation	Master ID	Culture 2	Country	Location	Death	Reference
Baltic							
	R1b-M343						
		I4630	Mesolithic	Latvia	Zvejnieki	9222	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I4432	Mesolithic	Latvia	Zvejnieki	7948	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I4626	Mesolithic	Latvia	Zvejnieki	7689	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I4626	Mesolithic	Latvia	Zvejnieki	7689	Jones et al. 2015; Reich Dataset V42.4 (2020)
		I4439	Mesolithic	Latvia	Zvejnieki	7648	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I4434	Mesolithic	Latvia	Zvejnieki	7446	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		Kivisaare3	Neolithic	Estonia	Kivisaare	6585	Mittnik et al. 2018; Reich Dataset V42.4 (2020)
	R1b-M73						
		I4628	Mesolithic	Latvia	Zvejnieki	7027	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I4628	Mesolithic	Latvia	Zvejnieki	7027	Jones et al. 2015; Reich Dataset V42.4 (2020)
	R1b-V88						
		I4436	Neolithic	Latvia	Zvejnieki	6105	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I4627	Neolithic	Latvia	Zvejnieki	6064	Mathieson et al. 2018; Reich Dataset V42.4 (2020)

Region	Mutation	Master ID	Culture 2	Country	Location	Death	Reference
		I4627	Neolithic	Latvia	Zvejnieki	6064	Jones et al. 2015; Reich Dataset V42.4 (2020)
Caucasus							
	R1b-M343						
		PG2001	Neolithic	Russia	Piedmont, Progress 2	6863	Wang et al. 2019; Reich Dataset V42.4 (2020)
		PG2004	Neolithic	Russia	Piedmont, Progress 2	6090	Wang et al. 2019; Reich Dataset V42.4 (2020)
Central Asia							
	R1b-M73						
		BOT14	Neolithic	Kazakhstan	Botai	5264	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)
Eastern Europe							
	R1b-CTS1078						
		I5884	Neolithic	Ukraine	Dereivka I	4743	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	R1b-M343						
		M95	Mesolithic	Romania	Schela Cladovei	8814	Gonzales Fortes et al. 2017; Reich Dataset V42.4 (2020)
		I4666	Neolithic	Serbia	Lepenski Vir	8017	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I0124	Mesolithic	Russia	Samara Oblast, Volga River Valley, Sok River, Lebyazhinka	7549	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
		I4114	Neolithic	Ukraine	Dereivka I	7351	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I5893	Neolithic	Ukraine	Dereivka I	7250	Mathieson et al. 2018; Reich Dataset V42.4 (2020)

Region	Mutation	Master ID	Culture 2	Country	Location	Death	Reference
		I5879	Neolithic	Ukraine	Dereivka I	7215	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I5892	Neolithic	Ukraine	Dereivka I	7092	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I0122	Neolithic	Russia	Samara Oblast, Volga River Valley, Khvalynsk II	6807	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	R1b-U152	RISE431	Neolithic	Poland	Leki Male	4117	Allentoft et al. 2015; Reich Dataset V42.4 (2020)
		I7271	Neolithic	Czech Republic	Brandýsek	4200	Olalde et al. 2018; Reich Dataset V42.4 (2020)
	R1b-V88						
		I5235	Mesolithic	Serbia	Padina	10835	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I5240	Mesolithic	Serbia	Padina	10805	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I5237	Mesolithic	Serbia	Padina	9800	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I4081	Mesolithic	Romania	Ostrovul Corbului	9335	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I1734	Neolithic	Ukraine	Vasil'evka	9202	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		M96	Mesolithic	Romania	Schela Cladovei	8825	Gonzales Fortes et al. 2017; Reich Dataset V42.4 (2020)
		I4916	Mesolithic	Serbia	Hajduka Vodenica	8763	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I5408	Mesolithic	Romania	Ostrovul Corbului	8704	Gonzales Fortes et al. 2017; Reich Dataset V42.4 (2020)

Region	Mutation	Master ID	Culture 2	Country	Location	Death	Reference
		I5411	Mesolithic	Romania	Schela Cladovei	8600	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I5772	Mesolithic	Serbia	Vlasac	8450	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I5232	Mesolithic	Serbia	Padina	7901	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I3718	Neolithic	Ukraine	Dereivka I	7230	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I5890	Neolithic	Ukraine	Dereivka I	7124	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
		I5883	Neolithic	Ukraine	Dereivka I	7056	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
Mediterranean							
	R1b-M343						
		R6	Neolithic	Italy	Grotta Continenza	7214	Antonio et al. 2019; Reich Dataset V42.4 (2020)
	R1b-V88						
		MA89.CDS001	Neolithic	Italy	Sardinia, Sardinia, Cannas di Sotto, t. 12	4551	Marcus et al. 2020
Middle East							
	R1b-M343						
		ART038	Neolithic	Turkey	Arslantepe	4534	Skourtanioti et al. 2020
Scandinavia							
	R1b-U106						
		RISE98	Neolithic	Sweden	L Beddinge 56	4104	Allentoft et al. 2015; Reich Dataset V42.4 (2020)
Western Europe							

Region	Mutation	Master ID	Culture 2	Country	Location	Death	Reference
	R1b-L51						
		MX304	Neolithic	Switzerland	Auvernier (CH)	4601	Furtwangler et al. 2020
		SX32	Neolithic	France	Lingolsheim (F)	4208	Furtwangler et al. 2020
	R1b-M269						
		CBV95	Neolithic	France	Ciry_Salsogne	4574	Brunel et al. 2020
	R1b-M343						
		CHA002	Neolithic	Spain	Cueva de Chaves	7135	Villalba-Mouco et al. 2019; Reich Dataset V42.4 (2020)
		I0411	Neolithic	Spain	Els Trocs	7131	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
		I0410	Neolithic	Spain	Els Trocs	7130	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
		I0559	Neolithic	Germany	Quedlinburg Site IX	5541	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
		I1594	Neolithic	Germany	Blatterhole Cave	5131	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		RISE436	Neolithic	Germany	Tiefbrunn	4674	Allentoft et al. 2015; Reich Dataset V42.4 (2020)
		MX310	Neolithic	Switzerland	Burgäschisee (CH)	4581	Furtwangler et al. 2020
	R1b-S116						
		MX259	Neolithic	Germany	Anselfingen (D)	4203	Furtwangler et al. 2020
		MX258	Neolithic	Germany	Singen (D)	3903	Furtwangler et al. 2020
		TU907 (SX20)	Neolithic	Switzerland	Wartau (CH)	3609	Furtwangler et al. 2020
	R1b-U152						
		MX288	Neolithic	Germany	Singen (D)	4028	Furtwangler et al. 2020
		MX275	Neolithic	Germany	Singen (D)	3961	Furtwangler et al. 2020
		RA63	Neolithic	Switzerland	Zuzach (CH)	3946	Furtwangler et al. 2020

Region	Mutation	Master ID	Culture 2	Country	Location	Death	Reference
		MX283	Neolithic	Germany	Singen (D)	3926	Furtwangler et al. 2020
		MX252	Neolithic	Germany	Singen (D)	3774	Furtwangler et al. 2020
R1b-V88							
		I1593	Neolithic	Germany	Blatterhole Cave	5601	Lipson et al. 2017; Reich Dataset V42.4 (2020)
		ALT_4	Neolithic	Germany	Althausen	4464	Mittnik et al. 2019; Reich Dataset V42.4 (2020)

Supplementary Table 18.18. The Distribution of R2a-M124 Remains.

Region	Mutation	Master ID	Culture 2	Country	Location	Death	Reference
Central Asia							
	R2a-M124	I4085	Copper Age	Turkmenistan	Turkestan, Tepe Anau	5450	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R2a-M124	I4087	Copper Age	Turkmenistan	Turkestan, Tepe Anau	5450	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R2a-M124	I7492	Bronze Age	Uzbekistan	Sappali Tepe	3827	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R2a-M124	I7419	Bronze Age	Uzbekistan	Sappali Tepe	3741	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R2a-M124	I11520	Bronze Age	Uzbekistan	Bustan	3511	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R2a-M124	I6675	Bronze Age	Turkmenistan	Sumbar	3250	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
Middle East							
	R2a-M124	I1954	Neolithic	Iran	Ganj Dareh	10093	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R2a-M124	I1946	Neolithic	Iran	Ganj Dareh	10000	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R2a-M124	I1947	Neolithic	Iran	Ganj Dareh	9973	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R2a-M124	I1952	Neolithic	Iran	Ganj Dareh	9940	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
South Asia							
	R2a-M124	I12147	Iron Age	Pakistan	Swat Valley, Katelai	3061	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R2a-M124	I12449	Iron Age	Pakistan	Swat Valley, Butkara II	2850	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)

Region	Mutation	Master ID	Culture 2	Country	Location	Death	Reference
	R2a-M124	I12968	Iron Age	Pakistan	Swat Valley, Butkara II	2850	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R2a-M124	I12470	Iron Age	Pakistan	Swat Valley, Katelai	2850	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R2a-M124	I12462	Iron Age	Pakistan	Swat Valley, Katelai	2850	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R2a-M124	I12473	Iron Age	Pakistan	Swat Valley, Katelai	2850	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R2a-M124	I5399	Iron Age	Pakistan	Swat Valley, Katelai	2850	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R2a-M124	I8997	Iron Age	Pakistan	Swat Valley, Loebanr	2850	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)

Supplementary Table 18.19. The Distribution of R1b-CTS1078 Remains.

Region	Mutation	Master ID	Culture 2	Country	Location	Death	Reference
Caucasus							
	R1b-CTS1078	GW1001	Bronze Age	Russia	Piedmont, GorjaÄvodskij 1	4726	Wang et al. 2019; Reich Dataset V42.4 (2020)
	R1b-CTS1078	BU2001	Bronze Age	Russia	Piedmont, Belij Ugol 2	4674	Wang et al. 2019; Reich Dataset V42.4 (2020)
	R1b-CTS1078	RISE397	Bronze Age	Armenia	Kapan	2902	Allentoft et al. 2015; Reich Dataset V42.4 (2020)
Eastern Europe							
	R1b-CTS1078	I0429	Yamnaya	Russia	Samara Oblast, Volga River Valley, Sok River, Lopatino I	5079	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	R1b-CTS1078	RISE548	Yamnaya	Russia	Temrta IV	4850	Allentoft et al. 2015; Reich Dataset V42.4 (2020)
	R1b-CTS1078	I0370	Yamnaya	Russia	Samara Oblast, Volga River Valley, Eastern Orenburg, Pre-Ural steppe, Ishkinovka I	4850	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	R1b-CTS1078	I0231	Yamnaya	Russia	Samara Oblast, Volga River Valley, Southern Steppe, Ekaterinovka	4792	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R1b-CTS1078	I0438	Yamnaya	Russia	Samara Oblast, Volga River Valley, Samara River, Luzkhi I	4778	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	R1b-CTS1078	I5884	Neolithic	Ukraine	Dereivka I	4743	Mathieson et al. 2018; Reich Dataset V42.4 (2020)

Region	Mutation	Master ID	Culture 2	Country	Location	Death	Reference
	R1b-CTS1078	I7671	Bronze Age	Russia	Samara Oblast, Volga River Valley, Bobrovka	4733	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R1b-CTS1078	I0440	Yamnaya	Russia	Samara Oblast, Volga River Valley, Sok River, Lopatino II	4727	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	R1b-CTS1078	I3499	Copper Age	Croatia	Beli Manastir-Popova zemlja	4725	Mathieson et al. 2018; Reich Dataset V42.4 (2020)
	R1b-CTS1078	I6294	Bronze Age	Russia	Samara Oblast, Volga River Valley, Sok River, Grachevka	4721	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R1b-CTS1078	RISE547	Yamnaya	Russia	Temrta IV	4711	Allentoft et al. 2015; Reich Dataset V42.4 (2020)
	R1b-CTS1078	I0126	Yamnaya	Russia	Samara Oblast, Volga River Valley, Kutuluk River, Kutuluk III	4627	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	R1b-CTS1078	I0374	Yamnaya	Russia	Samara Oblast, Volga River Valley, Samara River, Nikolaevka III	4350	Mathieson et al. 2015; Reich Dataset V42.4 (2020)
	R1b-CTS1078	I8745	Bronze Age	Russia	Samara Oblast, Volga River Valley, Nikolaevka Kurgan	4300	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R1b-CTS1078	I7044	Bronze Age	Hungary	Szigetszentmiklos-Vozm-telep-dulo	4300	Olalde et al. 2018; Reich Dataset V42.4 (2020)
	R1b-CTS1078	I2787	Bronze Age	Hungary	Szigetszentmiklós, Felső Ürge-hegyi dűlő	4280	Olalde et al. 2018; Reich Dataset V42.4 (2020)
	R1b-CTS1078	I1020	Bronze Age	Russia	Kamennyi Ambar 5 Cemetery	3843	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)

Region	Mutation	Master ID	Culture 2	Country	Location	Death	Reference
Middle East							
	R1b-CTS1078	I2327	Iron Age	Iran	Hajji Firuz	3056	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
Northern Eurasia							
	R1b-CTS1078	I5270	Afanasievo	Russia	Elo 1	5081	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R1b-CTS1078	I5277	Afanasievo	Russia	Elo Bashi	5040	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R1b-CTS1078	I2071	Afanasievo	Russia	Altai Mountains, Ust'- Kuyum	4968	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R1b-CTS1078	I5278	Afanasievo	Russia	Lower Tyumechin 1	4948	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R1b-CTS1078	I5269	Afanasievo	Russia	Elo 1	4908	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R1b-CTS1078	I5279	Afanasievo	Russia	Lower Tyumechin 1	4905	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R1b-CTS1078	I5273	Afanasievo	Russia	Lower Tyumechin 1	4899	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R1b-CTS1078	I11112	Afanasievo	Russia	Krasnoyarsk Krai, Minusinsk, Podsukhanika II	4800	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R1b-CTS1078	I3387	Afanasievo	Russia	Middle Yenisei region, Afanasieva Gora	4725	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)

Region	Mutation	Master ID	Culture 2	Country	Location	Death	Reference
	R1b-CTS1078	I3952	Afanasievo	Russia	Altai Mountains, Yenisey River, left bank of Karasuk tributary, Karasuk III	4673	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R1b-CTS1078	I6712	Afanasievo	Russia	Middle Yenisei region, Afanasieva Gora	4632	Narasimhan et al. 2019; Reich Dataset V42.4 (2020)
	R1b-CTS1078	RISE675	Bronze Age	Russia	Uybat V	4555	Barros Damgaard et al. 2018b; Reich Dataset V42.4 (2020)

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