

**Table 1S a.** Haplogroup distribution in males. SE= Standard Error. Sub-haplogroups with frequencies lower than 1.5% were grouped. HV0\* includes HV0a, OTHER includes K, K2, T, R0, R0a, R1, R2, HV1, HV2, N1a, N1b, N1c, N9a, A4, D5, C1d, M1, L1b1, with frequencies lower than 1.5%.

<b>Males (N=1327)</b>					
Sub-haplogroups	<b>Controls (N= 699)</b>		<b>90+ (N=628)</b>		<b>P-value</b>
	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	
<b>HV*</b>	347	49.6	318	50.6	0.447
<b>HV0*</b>	24	3.4	24	3.8	1.000
<b>H*</b>	306	43.8	280	44.6	0.476
<b>H1</b>	108	15.5	75	11.9	0.023
<b>H2</b>	11	1.6	10	1.6	1.000
<b>H3</b>	16	2.3	18	2.9	0.732
<b>H5</b>	20	2.9	24	3.8	0.545
<b>H6</b>	16	2.3	19	3	0.612
<b>I</b>	13	1.9	7	1.1	0.263
<b>J1</b>	44	6.3	40	6.4	0.826
<b>J2</b>	22	3.1	6	1	0.004
<b>K1</b>	46	6.6	47	7.5	0.834
<b>T1</b>	11	1.6	11	1.8	1.000
<b>T2</b>	54	7.7	46	7.3	0.545
<b>U</b>	93	13.3	88	14.0	0.876
<b>U2</b>	13	1.9	12	1.9	1.000
<b>U4</b>	13	1.9	13	2.1	1.000
<b>U5a</b>	30	4.3	24	3.8	0.497
<b>U5b</b>	17	2.4	18	2.9	0.866
<b>W</b>	16	2.3	13	2.1	0.711
<b>X</b>	19	2.7	18	2.9	1.000
<b>OTHER</b>	34	4.9	34	5.4	0.903

**Table 1S b.** Haplogroup distribution in females. SE=Standard Error; Sub-haplogroups with frequencies lower than 1.5% were grouped. HV0\* includes HV0a, OTHER includes K, K2, T, R0, R0a, R1, R2, HV1, HV2, N1a, N1b, N1c,N9a, A4, D5, C1d, M1, L1b1, with frequencies lower than 1.5%.

<b>Females (N = 2912)</b>					
	<b>Controls (N= 1454)</b>		<b>90+ (N= 1458)</b>		<b>p-value</b>
	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	
<b>HV*</b>	695	47.8	734	50.3	0.047
<b>HV0*</b>	44	3	59	4	0.110
<b>H*</b>	618	42.5	647	44.4	0.107
<b>H1</b>	217	14.9	217	14.9	0.761
<b>H2</b>	12	0.8	32	2.2	0.002
<b>H3</b>	69	4.7	53	3.6	0.200
<b>H5</b>	43	3	44	3	0.829
<b>H6</b>	31	2.1	33	2.3	0.708
<b>I</b>	31	2.1	39	2.7	0.281
<b>J1</b>	109	7.5	104	7.1	0.944
<b>J2</b>	35	2.4	33	2.3	1.000
<b>K1</b>	94	6.5	70	4.8	0.094
<b>T1</b>	42	2.9	32	2.2	0.348
<b>T2</b>	98	6.7	128	8.8	0.024
<b>U</b>	220	15.1	184	12.6	0.910
<b>U2</b>	26	1.8	26	1.8	1.000
<b>U4</b>	35	2.4	21	1.4	0.082
<b>U5a</b>	79	5.4	66	4.5	0.398
<b>U5b</b>	39	2.7	33	2.3	0.635
<b>W</b>	23	1.6	38	2.6	0.052
<b>X</b>	22	1.5	24	1.6	0.767
<b>OTHER</b>	85	5.8	72	4.9	0.416