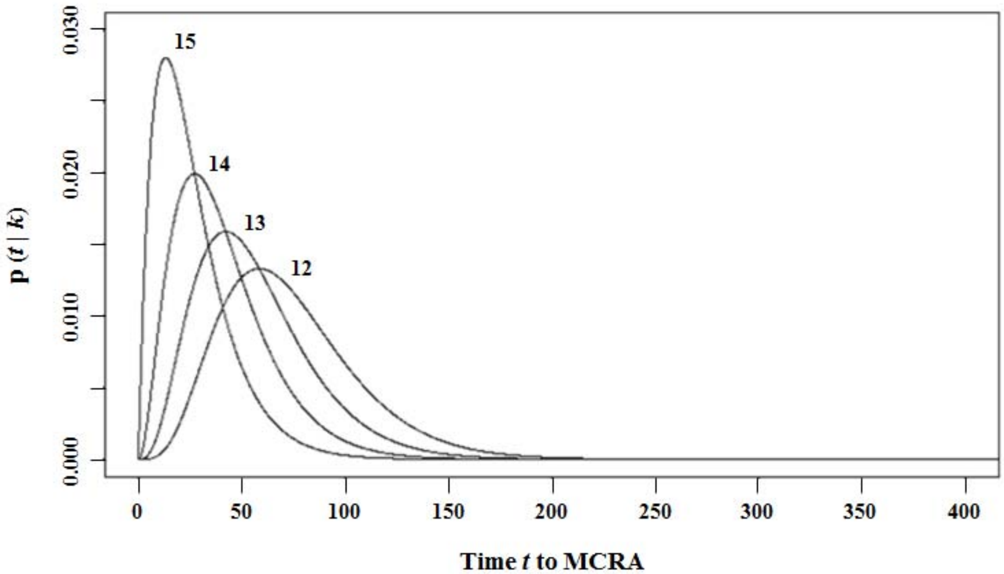

S- Fig. 1. Posterior distributions for the time of the most common recent ancestor (MRCA) between two individuals for 16 markers -17 loci- for an infinite alleles model with 1, 2, 3 or 4 differences assuming a λ=1/5000 prior and a mutation rate of μ=0,002458. Time is measured in generations. Numbers indicate number of marker alleles k that match between the two individuals.

S- Table 1. Summary of the posterior distribution of the most common ancestor for two individuals that match at 12, 13, 14 and 15 of 16 markers. Showing the maximum-likehood estimate (MLE), mean, standard deviation (SD) and the 0.025, 0.90 and 0.975 cutoff values.

Mismach	MLE	Mean	SD	$t_{0.025}$	$t_{0.9}$	$t_{0.975}$
1	13.1	26.2	18.5	3.1	50.9	73.0
2	27.1	40.7	23.5	8.3	72.2	98.0
3	42.1	56.3	28.2	15.2	94.0	123.6
4	58.4	64.7	32.9	23.6	117.1	150.4

S- Table 2. Y-chromosome profiles of 1429 individuals from the different regions of North Africa. For all populations (with the haplgroup classification available or not) the haplogroup was infered using the whit atheys' Haplogroup Predictor

Country	Ethnic/Language	Population	Sample Size	Haplotypes	Haplotype frequency	Haplogroup	Haplogroup Predictor	Y-STR haplotypes																Reference
								DYS19	DYS389I	DYS389II	DYS390	DYS391	DYS392	DYS393	DYS385	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	GATA H4.1	
Libya																								
	Cosmopolitan		238																					
		Benghazi	"																					
				BEN 1	1	-	J1 (90.2%)	11	13	29	23	11	11	12	13 − 19	14	10	12	20	15	18	21	11	Elmrghni et al., 2012
				BEN 2	1	-	E1b1b (100%)	11	13	30	24	10	12	14	16 − 19	14	11	12	21	15	16	21	9	Elmrghni et al., 2012
				BEN 3	1	-	L (39.3%)	12	10	28	22	12	11	11	14 − 16	14	11	9	19	14	19	21	10	Elmrghni et al., 2012
				BEN 4	1	-	J1 (96.7%)	12	13	29	23	10	11	12	13 − 21	14	9	12	20	14	19	21	11	Elmrghni et al., 2012
				BEN 5	1	-	J1 (53.1%)	12	13	29	23	11	12	12	13 − 19	14	9	12	20	14	18	21	11	Elmrghni et al., 2012
				BEN 6	1	-	E1b1a (61.2%)	12	13	30	21	10	11	13	16 − 17	14	11	13	21	15	17	23	12	Elmrghni et al., 2012
				BEN 7	1	-	J2a4 (x bh) (79.9%)	13	11	29	23	9	11	11	13 − 19	13	9	11	20	14	16	21	8	Elmrghni et al., 2012
				BEN 8	1	-	Q (100%)	13	12	28	22	9	15	13	15 − 16	14	11	11	19	14	17	22	10	Elmrghni et al., 2012
				BEN 9	1	-	J1 (98.7%)	13	12	28	23	11	11	12	16 − 17	14	9	10	20	15	19	20	11	Elmrghni et al., 2012
				BEN 10	1	-	G2a (51.4%)	13	12	29	22	9	11	13	12 − 15	14	9	13	23	15	15	20	11	Elmrghni et al., 2012
				BEN 11	1	-	E1b1b (98.8%)	13	12	29	22	9	11	13	13 − 15	14	10	13	23	15	15	23	11	Elmrghni et al., 2012
				BEN 12	1	-	E1b1b (100%)	13	12	29	23	10	11	13	16 − 18	14	10	12	20	15	16	24	11	Elmrghni et al., 2012
				BEN 13	1	-	E1b1b (98.9%)	13	12	29	24	11	11	16	13 − 15	14	9	10	20	18	20	21	12	Elmrghni et al., 2012
				BEN 14	1	-	J1 (90.2%)	13	13	28	23	11	11	12	13 − 19	14	9	11	20	14	18	21	11	Elmrghni et al., 2012
				BEN 15	1	-	J2a4b (48%)	13	13	28	24	9	11	12	13 − 15	14	9	10	20	15	17	21	12	Elmrghni et al., 2012
				BEN 16	1	-	T (57.2%)	13	13	28	24	9	11	13	12 − 14	14	9	10	19	16	17	20	12	Elmrghni et al., 2012
				BEN 17	1	-	E1b1b (86.4%)	13	13	28	24	9	11	13	13 − 14	14	9	11	20	16	18	20	12	Elmrghni et al., 2012
				BEN 18	1	-	T (91.1%)	13	13	28	24	9	11	13	13 − 15	14	9	10	19	15	17	21	12	Elmrghni et al., 2012
				BEN 19	3	-	E1b1b (47.4%)	13	13	28	24	9	11	13	13 − 15	14	9	10	20	15	17	21	12	Elmrghni et al., 2012
				BEN 20	1	-	E1b1b (41.5%)	13	13	28	24	9	11	13	13 − 15	14	9	10	20	15	18	21	12	Elmrghni et al., 2012
				BEN 21	1	-	E1b1b (83.4%)	13	13	28	24	9	11	13	13 − 15	14	9	10	20	17	18	21	12	Elmrghni et al., 2012
				BEN 22	1	-	E1b1b (92.9%)	13	13	28	24	9	11	13	15 − 15	14	9	10	21	17	17	20	12	Elmrghni et al., 2012
				BEN 23	1	-	E1b1b (97.5%)	13	13	28	24	9	11	13	15 − 15	14	10	10	21	14	17	21	12	Elmrghni et al., 2012
				BEN 24	1	-	J2a4 (x bh) (68.3%)	13	13	28	24	10	11	12	14 − 15	14	9	10	20	16	17	21	12	Elmrghni et al., 2012
				BEN 25	1	-	J2a4 (x bh) (87.1%)	13	13	29	21	10	11	14	12 − 13	15	9	11	22	14	18	21	8	Elmrghni et al., 2012
				BEN 26	1	-	J1 (62.3%)	13	13	29	22	11	11	12	19 − 21	14	10	11	20	14	18	20	11	Elmrghni et al., 2012
				BEN 27	1	-	J1 (99.8%)	13	13	29	23	9	11	12	13 − 15	14	10	10	20	15	17	21	12	Elmrghni et al., 2012
				BEN 28	1	-	T (75.6%)	13	13	29	23	9	14	13	16 − 17	14	9	12	19	15	20	23	11	Elmrghni et al., 2012
				BEN 29	1	-	J1 (80%)	13	13	29	23	10	11	13	13 − 19	14	10	12	20	14	18	21	11	Elmrghni et al., 2012
				BEN 30	1	-	E1b1b (97.6%)	13	13	29	23	10	11	13	17 − 21	14	9	12	20	15	18	21	11	Elmrghni et al., 2012
				BEN 31	1	-	J1 (98.5%)	13	13	29	23	11	11	12	13 − 16	14	11	11	20	14	18	22	11	Elmrghni et al., 2012
				BEN 32	1	-	J1 (99.9%)	13	13	29	23	11	11	12	13 − 18	14	10	11	20	14	19	21	11	Elmrghni et al., 2012
				BEN 33	1	-	E1b1b (95.5%)	13	13	29	24	9	11	13	13 − 15	14	10	10	20	15	17	21	12	Elmrghni et al., 2012
				BEN 34	1	-	E1b1b (99.6%)	13	13	29	24	9	11	13	13 − 15	14	10	10	20	16	18	21	12	Elmrghni et al., 2012
				BEN 35	1	-	E1b1b (97.8%)	13	13	29	24	9	11	13	14 − 15	14	10	10	20	15	17	21	12	Elmrghni et al., 2012
				BEN 36	1	-	E1b1b (100%)	13	13	29	24	10	12	13	16 − 19	14	10	11	20	15	17	23	12	Elmrghni et al., 2012
				BEN 37	1	-	E1b1b (96%)	13	13	29	24	11	11	15	13 − 14	14	9	10	20	16	16	21	12	Elmrghni et al., 2012
				BEN 38	1	-	E1b1b (57.4%)	13	13	30	21	10	11	13	16 − 22	14	11	10	21	15	17	23	12	Elmrghni et al., 2012
				BEN 39	1	-	E1b1b (97.1%)	13	13	30	24	9	11	13	13 − 15	14	9	10	21	16	16	22	12	Elmrghni et al., 2012
				BEN 40	1	-	E1b1b (100%)	13	13	31	23	10	11	13	16 − 17	14	10	12	20	15	18	24	11	Elmrghni et al., 2012
				BEN 41	1	-	E1b1b (100%)	13	13	31	26	10	11	13	16 − 18	14	10	12	20	16	16	22	11	Elmrghni et al., 2012
				BEN 42	1	-	T (42.3%)	13	14	28	24	9	11	13	13 − 15	14	9	10	21	16	16	21	12	Elmrghni et al., 2012
				BEN 43	1	-	G2a (97.8%)	13	14	29	22	11	11	17	12 − 15	14	9	13	24	18	19	20	12	Elmrghni et al., 2012
				BEN 44	1	-	E1b1b (65%)	13	14	29	23	9	11	13	13 − 15	14	10	10	21	16	17	21	13	Elmrghni et al., 2012
				BEN 45	1	-	J2a4b (56.4%)	13	14	29	24	9	11	12	13 − 14	14	9	10	20	16	18	21	12	Elmrghni et al., 2012
				BEN 46	1	-	J2a4 (x bh) (50.9%)	13	14	29	24	9	11	12	13 − 14	14	9	12	20	16	18	21	12	Elmrghni et al., 2012
				BEN 47	1	-	J2a4 (x bh) (59.6%)	13	14	29	24	9	11	12	13 − 15	14	9	12	20	16	16	21	12	Elmrghni et al., 2012
				BEN 48	1	-	E1b1b (54.1%)	13	14	29	24	9	11	13	11 − 15	14	9	10	20	16	17	20	12	Elmrghni et al., 2012
				BEN 49	1	-	E1b1b (100%)	13	14	29	24	9	11	13	13 − 13	14	10	10	20	16	18	21	12	Elmrghni et al., 2012
				BEN 50	1	-	E1b1b (97.3%)	13	14	29	24	9	11	13	13 − 14	14	9	10	20	16	19	20	12	Elmrghni et al., 2012
				BEN 51	1	-	E1b1b (100%)	13	14	29	24	9	11	13	13 − 14	14	10	10	20	15	17	21	11	Elmrghni et al., 2012
				BEN 52	4	-	E1b1b (100%)	13	14	29	24	9	11	13	13 − 14	14	10	10	20	16	18	21	12	Elmrghni et al., 2012
				BEN 53	1	-	E1b1b (100%)	13	14	29	24	9	11	13	13 − 14	14	10	10	20	16	19	21	12	Elmrghni et al., 2012
				BEN 54	1	-	E1b1b (100%)	13	14	29	24	9	11	13	13 − 14	14	11	10	20	16	18	22	12	Elmrghni et al., 2012
				BEN 55	1	-	T (53.5%)	13	14	29	24	9	11	13	13 − 14	15	9	11	20	16	17	21	12	Elmrghni et al., 2012
				BEN 56	1	-	T (45.3%)	13	14	29	24	9	11	13	13 − 15	14	9	10	20	15	17	21	12	Elmrghni et al., 2012
				BEN 57	1	-	T (62.2%)	13	14	29	24	9	11	13	13 − 15	14	9	12	20	14	17	20	13	Elmrghni et al., 2012
				BEN 58	1	-	E1b1b (99.5%)	13	14	29	24	9	11	13	13 − 15	14	10	10	20	16	17	21	12	Elmrghni et al., 2012
				BEN 59	1	-	E1b1b (99.7%)	13	14	29	24	9	11	13	13 − 15	14	10	10	20	16	18	21	12	Elmrghni et al., 2012
				BEN 60	1	-	E1b1b (98.1%)	13	14	29	24	9	11	13	13 − 15	14	10	10	21	16	17	21	12	Elmrghni et al., 2012
				BEN 61	1	-	E1b1b (98.9%)	13	14	29	24	9	11	13	13 − 15	14	10	10	21	16	19	21	12	Elmrghni et al., 2012
				BEN 62	1	-	E1b1b (90.6%)	13	14	29	24	9	11	13	13 − 15	14	10	11	20	15	17	21	12	Elmrghni et al., 2012
				BEN 63	1	-	E1b1b (67%)	13	14	29	24	9	11	13	14 − 14	14	9	10	20	15	17	20	12	Elmrghni et al., 2012
				BEN 64	1	-	E1b1b (77.9%)	13	14	29	24	9	11	13	15 − 15	14	9	10	20	16	18	20	12	Elmrghni et al., 2012
				BEN 65	1	-	E1b1b (98.7%)	13	14	29	24	9	11	14	12 − 16	14	10	10	20	15	17	21	12	Elmrghni et al., 2012
				BEN 66	2	-	E1b1b (68.5%)	13	14	29	24	9	11	14	13 − 13	14	9	10	20	16	18	21	12	Elmrghni et al., 2012
				BEN 67	1	-	E1b1b (99.9%)	13	14	29	24	9	11	14	13 − 13	14	10	13	20	16	18	21	12	Elmrghni et al., 2012
				BEN 68	1	-	J1 (51.3%)	13	14	29	24	10	11	12	13 − 14	14	10	11	20	16	18	21	12	Elmrghni et al., 2012
				BEN 69	1	-	E1b1b (87.3%)	13	14	29	24	10	11	13	13 − 14	14	9	13	20	18	18	21	12	Elmrghni et al., 2012
				BEN 70	1	-	E1b1b (95.6%)	13	14	29	24	10	11	13	13 − 15	14	10	10	20	16	18	21	10	Elmrghni et al., 2012
				BEN 71	1	-	E1b1b (99.6%)	13	14	29	25	9	11	13	13 − 14	14	10	11	20	15	18	21	12	Elmrghni et al., 2012
				BEN 72	1	-	E1b1b (99.9%)	13	14	30	23	10	11	13	17 − 17	14	10	11	20	15	17	21	11	Elmrghni et al., 2012
				BEN 73	1	-	E1b1b (87.5%)	13	14	30	23	11	11	17	14 − 15	14	10	10	20	18	14	21	12	Elmrghni et al., 2012
				BEN 74	1	-	E1b1b (100%)	13	14	30	24	9	11	13	13 − 14	14	10	10	20	16	18	22	12	Elmrghni et al., 2012
				BEN 75	1	-	E1b1b (97%)	13	14	30	24	9	11	13	13 − 15	14	10	10	20	15	17	21	11	Elmrghni et al., 2012
				BEN 76	1	-	E1b1b (99.9%)	13	14	30	24	9	11	13	13 − 16	14	10	10	21	16	18	21	12	Elmrghni et al., 2012
				BEN 77	1	-	E1b1b (99.2%)	13	14	30	24	9	11	13	13 − 21	14	9	10	20	16	18	21	13	Elmrghni et al., 2012
				BEN 78	1	-	E1b1b (99.7%)	13	14	30	24	9	11	13	14 − 15	14	10	10	20	16	18	21	12	Elmrghni et al., 2012
				BEN 79	1	-	E1b1b (99.6%)	13	14	30	25	9	11	13	14 − 15	14	10	10	20	16	18	21	12	Elmrghni et al., 2012
				BEN 80	1	-	E1b1b (100%)	13	14	30	25	10	11	13	17 − 18	14	9	11	20	15	16	21	11	Elmrghni et al., 2012
				BEN 81	1	-	E1b1b (99.6%)	13	14	30	26	9	11	13	14 − 15	14	10	10	20	16	17	21	12	Elmrghni et al., 2012
				BEN 82	1	-	T (43.8%)	14	11	29	23	9	14	12	15 − 17	14	9	13	19	15	17	22	11	Elmrghni et al., 2012
				BEN 83	1	-	E1b1b (76.7%)	14	12	28	23	10	11	13	16 − 19	14	9	10	20	15	14	20	10	Elmrghni et al., 2012
				BEN 84	1	-	J1 (98.9%)	14	12	29	23	11	11	12	13 − 20	14	9	11	20	13	19	21	11	Elmrghni et al., 2012
				BEN 85	1	-	J1 (99.1%)	14	12	29	23	11	11	12	14 − 19	14	10	12	19	14	20	21	11	Elmrghni et al., 2012
				BEN 86	1	-	I2a (xI2a1) (61.7%)	14	12	29	23	11	11	13	15 − 15	14	10	13	19	15	18	21	12	Elmrghni et al., 2012
				BEN 87	1	-	I2a (xI2a1) (71.8%)	14	12	30	23	11	11	13	15 − 15	14	11	13	19	15	18	24	12	Elmrghni et al., 2012
				BEN 88	1	-	J2a4b (91.5%)	14	13	28	23	10	11	13	12 − 16	14	9	10	21	15	17	21	11	Elmrghni et al., 2012
				BEN 89	1	-	J2a4b (94.6%)	14	13	28	23	10	11	13	12 − 16	14	9	11	21	15	18	21	11	Elmrghni et al., 2012
				BEN 90	1	-	J1 (98.5%)	14	13	28	23	10	11	13	13 − 19	14	9	11	20	15	17	20	11	Elmrghni et al., 2012
				BEN 91	1	-	J1 (99%)	14	13	28	23	11	11	12	12 − 19	14	9	11	20	14	18	20	11	Elmrghni et al., 2012
				BEN 92	1	-	J1 (99.3%)	14	13	28	23	11	11	12	13 − 19	14	9	11	20	14	18	20	10	Elmrghni et al., 2012
				BEN 93	1	-	J1 (47.1%)	14	13	28	23	11	11	12	14 − 22	15	9	11	21	15	17	21	11	Elmrghni et al., 2012
				BEN 94	1	-	J1 (96%)	14	13	28	23	11	12	12	13 − 19	14	10	11	20	14	18	21	11	Elmrghni et al., 2012
				BEN 95	1	-	Q (98.2%)	14	13	28	24	10	11	13	15 − 17	15	11	12	18	16	15	25	12	Elmrghni et al., 2012
				BEN 96	1	-	T (100%)	14	13	28	24	10	14	13	15 − 16	14	9	12	19	15	17	21	11	Elmrghni et al., 2012
				BEN 97	1	-	T (71.8%)	14	13	28	24	11	14	12	14 − 15	15	12	11	19	15	15	21	11	Elmrghni et al., 2012
				BEN 98	1	-	J1 (100%)	14	13	29	22	10	11	12	13 − 19	14	10	11	20	15	18	21	11	Elmrghni et al., 2012
				BEN 99	1	-	J1 (73%)	14	13	29	22	11	11	12	13 − 19	14	9	11	20	14	18	21	11	Elmrghni et al., 2012
				BEN 100	1	-	J2a4 (x bh) (44.6%)	14	13	29	22	11	11	12	13 − 19	14	9	11	20	15	19	21	11	Elmrghni et al., 2012
				BEN 101	4	-	J1 (100%)	14	13	29	22	11	11	12	13 − 19	14	10	11	20	14	18	21	11	Elmrghni et al., 2012
				BEN 102	1	-	J1 (100%)	14	13	29	22	11	11	12	13 − 20	14	10	11	20	14	18	21	11	Elmrghni et al., 2012
				BEN 103	1	-	J1 (99.9%)	14	13	29	22	11	13	12	13 − 19	14	10	11	20	14	18	21	11	Elmrghni et al., 2012
				BEN 104	1	-	J1 (99.3%)	14	13	29	22	12	11	12	13 − 19	14	9	12	20	14	19	20	11	Elmrghni et al., 2012
				BEN 105	1	-	J1 (99.9%)	14	13	29	23	10	11	12	13 − 19	14	9	11	20	14	18	20	11	Elmrghni et al., 2012
				BEN 106	1	-	J1 (96.4%)	14	13	29	23	10	11	12	13 − 19	14	9	11	20	14	18	21	11	Elmrghni et al., 2012
				BEN 107	1	-	J2a4 (x bh) (78.4%)	14	13	29	23	10	11	12	12 − 14	14	9	11	20	14	16	21	12	Elmrghni et al., 2012
				BEN 108	1	-	J2a4b (86.6%)	14	13	29	23	10	11	13	13 − 15	14	9	12	20	14	16	24	12	Elmrghni et al., 2012
				BEN 109	1	-	J2a4b (98.3%)	14	13	29	23	10	11	13	13 − 16	14	9	11	20	14	16	24	12	Elmrghni et al., 2012
				BEN 110	1	-	J1 (95.4%)	14	13	29	23	10	11	13	13 − 19	14	9	11	20	14	18	21	11	Elmrghni et al., 2012
				BEN 111	1	-	T (85%)	14	13	29	23	10	13	13	13 − 17	14	9	11	20	15	17	21	11	Elmrghni et al., 2012
				BEN 112	1	-	J2a4b (63%)	14	13	29	23	11	10	12	13 − 16	14	9	11	20	14	19	21	10	Elmrghni et al., 2012
				BEN 113	1	-	J1 (99.7%)	14	13	29	23	11	11	12	13 − 19	14	9	11	20	14	17	20	11	Elmrghni et al., 2012
				BEN 114	1	-	J1 (67.1%)	14	13	29	23	11	11	11	13 − 20	14	9	11	20	14	19	21	11	Elmrghni et al., 2012
				BEN 115	1	-	J1 (99.9%)	14	13	29	23	11	11	12	13 − 13	14	10	12	20	14	19	21	11	Elmrghni et al., 2012
				BEN 116	1	-	J1 (99.9%)	14	13	29	23	11	11	12	13 − 16	14	11	11	20	14	18	21	11	Elmrghni et al., 2012
				BEN 117	1	-	J1 (94.9%)	14	13	29	23	11	11	12	13 − 17	14	9	11	20	14	18	20	11	Elmrghni et al., 2012
				BEN 118	1	-	J1 (100%)	14	13	29	23	11	11	12	13 − 17	14	10	11	20	14	18	21	11	Elmrghni et al., 2012
				BEN 119	1	-	J1 (100%)	14	13	29	23	11	11	12	13 − 17	14	10	12	20	14	18	21	11	Elmrghni et al., 2012
				BEN 120	1	-	J1 (98.4%)	14	13	29	23	11	11	12	13 − 18	14	9	12	20	14	18	20	11	Elmrghni et al., 2012
				BEN 121	1	-	J1 (90.3%)	14	13	29	23	11	11	12	13 − 19	14	9	10	20	14	19	21	11	Elmrghni et al., 2012
				BEN 122	5	-	J1 (99.8%)	14	13	29	23	11	11	12	13 − 19	14	9	11	20	14	18	20	11	Elmrghni et al., 2012
				BEN 123	4	-	J1 (92.6%)	14	13	29	23	11	11	12	13 − 19	14	9	11	20	14	18	21	11	Elmrghni et al., 2012
				BEN 124	1	-	J1 (99.7%)	14	13	29	23	11	11	12	13 − 19	14	9	11	20	14	19	20	11	Elmrghni et al., 2012
				BEN 125	1	-	J1 (99.7%)	14	13	29	23	11	11	12	13 − 19	14	9	11	20	14	19	20	12	Elmrghni et al., 2012
				BEN 126	1	-	J1 (87.1%)	14	13	29	23	11	11	12	13 − 19	14	9	11	20	14	19	21	10	Elmrghni et al., 2012
				BEN 127	6	-	J1 (87.1%)	14	13	29	23	11	11	12	13 − 19	14	9	11	20	14	19	21	11	Elmrghni et al., 2012
				BEN 128	3	-	J1 (99.6%)	14	13	29	23	11	11	12	13 − 19	14	9	12	20	14	19	20	11	Elmrghni et al., 2012
				BEN 129	1	-	J1 (100%)	14	13	29	23	11	11	12	13 − 19	14	10	11	20	14	17	21	11	Elmrghni et al., 2012
				BEN 130	8	-	J1 (100%)	14	13	29	23	11	11	12	13 − 19	14	10	11	20	14	18	21	11	Elmrghni et al., 2012
				BEN 131	3	-	J1 (100%)	14	13	29	23	11	11	12	13 − 19	14	10	12	20	14	18	21	11	Elmrghni et al., 2012
				BEN 132	1	-	J1 (91.7%)	14	13	29	23	11	11	12	13 − 20	14	9	11	20	14	18	21	11	Elmrghni et al., 2012
				BEN 133	1	-	J1 (99.1%)	14	13	29	23	11	11	12	13 − 20	14	9	12	20	13	19	21	11	Elmrghni et al., 2012
				BEN 134	1	-	J1 (100%)	14	13	29	23	11	11	12	13 − 20	14	10	12	20	14	18	21	11	Elmrghni et al., 2012
				BEN 135	1	-	J1 (100%)	14	13	29	23	11	11	12	13 − 21	14	10	11	20	14	18	21	11	Elmrghni et al., 2012
				BEN 136	1	-	J1 (99.6%)	14	13	29	23	11	11	12	19 − 22	14	10	11	20	15	18	21	11	Elmrghni et al., 2012
				BEN 137	1	-	J1 (81.6%)	14	13	29	23	11	11	12	20 − 20	14	9	11	20	14	18	21	11	Elmrghni et al., 2012
				BEN 138	1	-	J1 (71.2%)	14	13	29	23	11	11	13	13 − 19	14	9	11	20	14	18	22	11	Elmrghni et al., 2012
				BEN 139	1	-	J1 (78.6%)	14	13	29	23	11	12	12	13 − 19	14	9	11	20	14	18	21	11	Elmrghni et al., 2012
				BEN 140	1	-	J1 (99.5%)	14	13	29	23	11	12	12	13 − 19	14	10	11	20	14	18	21	11	Elmrghni et al., 2012
				BEN 141	1	-	E1b1b (40.6%)	14	13	29	24	10	8	13	16 − 19	14	9	12	19	15	17	21	11	Elmrghni et al., 2012
				BEN 142	1	-	E1b1b (96.4%)	14	13	29	24	10	11	13	18 − 18	14	10	11	20	15	16	21	12	Elmrghni et al., 2012
				BEN 143	1	-	J2a4b (71.1%)	14	13	29	24	11	11	12	13 − 16	15	9	11	20	15	15	21	11	Elmrghni et al., 2012
				BEN 144	1	-	J2a4b (65.7%)	14	13	29	24	11	11	12	13 − 16	15	9	11	20	15	19	23	11	Elmrghni et al., 2012
				BEN 145	1	-	J1 (99.7%)	14	13	29	24	11	11	12	13 − 19	14	9	11	20	14	18	20	11	Elmrghni et al., 2012
				BEN 146	1	-	J1 (99.5%)	14	13	29	24	11	11	12	13 − 19	14	9	11	20	14	19	20	11	Elmrghni et al., 2012
				BEN 147	1	-	J1 (98.9%)	14	13	29	24	11	11	12	13 − 20	14	9	13	20	14	20	21	11	Elmrghni et al., 2012
				BEN 148	1	-	T (51%)	14	13	29	25	9	13	13	12 − 15	15	12	13	19	17	16	21	12	Elmrghni et al., 2012
				BEN 149	1	-	J2a4b (62.7%)	14	13	29	26	9	12	12	15 − 17	15	9	12	19	15	15	20	12	Elmrghni et al., 2012
				BEN 150	1	-	J2a4 (x bh) (97.5%)	14	13	30	21	9	11	12	11 − 12	15	12	12	22	14	19	21	12	Elmrghni et al., 2012
				BEN 151	1	-	J2a4b (97.4%)	14	13	30	23	10	11	12	13 − 15	15	9	11	20	15	15	24	11	Elmrghni et al., 2012
				BEN 152	1	-	J2a4b (62.2%)	14	13	30	23	10	11	13	13 − 15	14	9	12	20	14	16	23	12	Elmrghni et al., 2012
				BEN 153	1	-	J1 (97.9%)	14	13	30	23	10	11	13	14 − 18	14	10	11	20	15	18	21	11	Elmrghni et al., 2012
				BEN 154	1	-	J1 (100%)	14	13	30	23	11	11	12	11 − 20	14	10	11	20	14	19	21	11	Elmrghni et al., 2012
				BEN 155	1	-	J1 (100%)	14	13	30	23	11	11	12	13 − 18	14	10	11	20	14	18	21	11	Elmrghni et al., 2012
				BEN 156	1	-	J1 (100%)	14	13	30	23	11	11	12	13 − 19	13	10	11	20	14	18	21	11	Elmrghni et al., 2012
				BEN 157	1	-	J1 (100%)	14	13	30	23	11	11	12	13 − 20	14	10	11	20	14	18	21	11	Elmrghni et al., 2012
				BEN 158	1	-	J1 (99.9%)	14	13	30	23	11	11	12	14 − 18	14	10	12	20	14	19	21	11	Elmrghni et al., 2012
				BEN 159	1	-	J1 (100%)	14	13	30	23	11	11	12	14 − 19	14	10	11	20	14	18	21	11	Elmrghni et al., 2012
				BEN 160	1	-	J1 (100%)	14	13	30	23	11	11	12	14 − 20	14	10	12	20	13	18	21	11	Elmrghni et al., 2012
				BEN 161	1	-	R1b (100%)	14	13	30	24	11	13	13	12 − 14	15	12	13	19	15	17	23	11	Elmrghni et al., 2012
				BEN 162	1	-	E1b1b (100%)	14	13	30	25	10	11	13	19 − 19	14	10	11	20	15	16	21	12	Elmrghni et al., 2012
				BEN 163	1	-	R1a (100%)	14	13	30	25	10	11	14	11 − 13	14	11	10	20	16	15	23	13	Elmrghni et al., 2012
				BEN 164	1	-	J2a4 (x bh) (61.8%)	14	13	31	23	9	11	13	14 − 14	14	9	11	21	17	16	21	12	Elmrghni et al., 2012
				BEN 165	1	-	J2a4b (85.6%)	14	14	28	23	10	11	13	13 − 19	15	9	11	20	16	18	21	11	Elmrghni et al., 2012
				BEN 166	1	-	R1b (98.2%)	14	14	29	23	11	13	13	14 − 15	14	12	13	19	15	18	23	12	Elmrghni et al., 2012
				BEN 167	2	-	N (99.8%)	14	14	29	23	11	14	13	13 − 13	14	10	10	18	16	16	24	11	Elmrghni et al., 2012
				BEN 168	1	-	T (98.8%)	14	14	29	23	11	14	13	13 − 15	14	10	10	18	16	16	21	11	Elmrghni et al., 2012
				BEN 169	1	-	E1b1b (89.9%)	14	14	29	24	9	11	13	13 − 14	14	10	10	20	15	17	22	11	Elmrghni et al., 2012
				BEN 170	1	-	J2a4 (x bh) (62.8%)	14	14	29	24	10	11	13	14 − 17	15	9	12	20	15	18	22	12	Elmrghni et al., 2012
				BEN 171	1	-	J2a4 (x bh) (99.4%)	14	14	29	24	10	11	13	14 − 21	15	9	12	20	15	18	22	12	Elmrghni et al., 2012
				BEN 172	1	-	J2a4 (x bh) (92.4%)	14	14	30	23	9	11	12	14 − 16	15	11	11	19	15	15	21	12	Elmrghni et al., 2012
				BEN 173	1	-	J1 (99.9%)	14	14	30	23	9	11	12	14 − 19	14	10	12	20	14	18	21	11	Elmrghni et al., 2012
				BEN 174	1	-	E1b1b (99.7%)	14	14	31	25	9	11	13	14 − 16	14	10	10	20	16	19	22	12	Elmrghni et al., 2012
				BEN 175	1	-	G2a (97.9%)	15	11	28	23	9	11	13	13 − 15	16	10	13	22	15	15	21	11	Elmrghni et al., 2012
				BEN 176	1	-	G2a (99.4%)	15	12	28	22	10	11	13	14 − 15	15	11	11	22	15	18	22	12	Elmrghni et al., 2012
				BEN 177	1	-	G2a (99.6%)	15	12	28	22	10	11	14	13 − 15	16	10	11	20	15	17	21	12	Elmrghni et al., 2012
				BEN 178	2	-	R1b (97.9%)	15	13	28	24	11	13	14	13 − 13	14	12	12	19	15	18	24	13	Elmrghni et al., 2012
				BEN 179	1	-	G2a (94.6%)	15	13	29	21	10	11	14	12 − 13	15	10	12	21	14	17	20	12	Elmrghni et al., 2012
				BEN 180	1	-	E1b1a (100%)	15	13	29	21	10	11	14	15 − 17	14	11	13	20	15	17	22	11	Elmrghni et al., 2012
				BEN 181	1	-	T (90.8%)	15	13	29	24	10	13	13	14 − 17	14	12	12	20	15	17	21	13	Elmrghni et al., 2012
				BEN 182	1	-	J1 (99.9%)	15	13	29	24	11	11	12	13 − 19	14	10	13	20	14	18	21	11	Elmrghni et al., 2012
				BEN 183	1	-	O2 (72.4%)	15	13	29	25	10	12	14	14 − 18	14	11	12	18	15	16	23	13	Elmrghni et al., 2012
				BEN 184	1	-	L (78.6%)	15	13	29	25	11	14	12	12 − 15	15	12	11	19	15	15	21	11	Elmrghni et al., 2012
				BEN 185	1	-	E1b1a (100%)	15	13	30	21	10	12	14	15 − 17	13	11	13	20	16	16	23	11	Elmrghni et al., 2012
				BEN 186	1	-	E1b1b (47.2%)	15	14	30	24	9	10	12	16 − 17	15	10	11	20	15	16	23	10	Elmrghni et al., 2012
				BEN 187	1	-	J2a4b (74.2%)	15	14	30	24	10	11	12	13 − 15	14	9	11	20	15	18	21	11	Elmrghni et al., 2012
				BEN 188	1	-	R1b (99.8%)	15	14	30	24	11	13	13	14 − 15	14	12	13	19	16	17	23	13	Elmrghni et al., 2012
				BEN 189	1	-	R1b (88.5%)	15	14	30	24	11	15	13	14 − 15	14	12	12	19	15	19	23	12	Elmrghni et al., 2012
				BEN 190	1	-	L (77.4%)	15	14	31	23	11	15	15	15 − 16	16	12	13	20	15	18	23	11	Elmrghni et al., 2012
				BEN 191	1	-	E1a (99.6%)	16	11	28	22	10	11	13	13 − 17	17	11	11	19	15	15	21	11	Elmrghni et al., 2012
				BEN 192	1	-	J2b (99.5%)	16	12	28	24	11	11	13	16 − 18	14	9	13	19	14	15	21	11	Elmrghni et al., 2012
				BEN 193	1	-	E1b1a (100%)	16	12	29	21	10	11	13	15 − 16	13	11	12	21	15	16	22	11	Elmrghni et al., 2012
				BEN 194	1	-	O3 (89%)	16	13	27	23	11	13	12	14 − 20	14	10	12	20	13	18	22	11	Elmrghni et al., 2012
				BEN 195	1	-	E1b1a (100%)	16	13	28	21	10	11	14	16 − 19	14	10	13	21	15	16	21	11	Elmrghni et al., 2012
				BEN 196	1	-	J2a4b (92.9%)	16	13	29	23	10	11	12	15 − 15	15	9	11	20	15	15	24	11	Elmrghni et al., 2012
				BEN 197	1	-	I2a (xI2a1) (99.9%)	16	13	29	24	10	11	13	14 − 15	14	10	13	20	15	15	22	11	Elmrghni et al., 2012
				BEN 198	1	-	R1b (38.9%)	16	13	29	24	10	13	11	13 − 15	14	12	12	20	15	15	23	11	Elmrghni et al., 2012
				BEN 199	1	-	E1b1a (100%)	16	13	30	21	10	11	13	16 − 17	14	11	13	21	15	17	23	12	Elmrghni et al., 2012
				BEN 200	1	-	E1b1a (100%)	16	13	30	21	10	11	13	17 − 18	14	11	11	21	15	18	21	12	Elmrghni et al., 2012
				BEN 201	1	-	E1b1a (100%)	16	13	30	21	10	11	15	16 − 17	14	10	12	21	15	16	20	11	Elmrghni et al., 2012
				BEN 202	1	-	J2a4b (80.3%)	16	13	30	23	10	11	12	13 − 15	15	9	11	20	15	15	23	11	Elmrghni et al., 2012
				BEN 203	1	-	R2 (47.7%)	16	14	28	23	10	12	13	18 − 19	14	9	10	19	15	17	24	12	Elmrghni et al., 2012
				BEN 204	1	-	C3 (84.4%)	16	14	29	24	9	12	14	13 − 14	14	11	13	19	15	18	23	12	Elmrghni et al., 2012
Tunisia																								
	Berbers		160																					
		Sejenane	47																					
				SEJ 1	1	-	E1b1b (99.9%)	13	12	28	24	9	11	13	13 − 13	14	10	10	21	16	18	21	12	Frigi et al., 2006
				SEJ 2	1	-	E1b1b (99.8%)	13	13	29	24	9	11	13	13 − 13	14	10	10	21	17	18	21	12	Frigi et al., 2006
				SEJ 3	1	-	E1b1b (99.8%)	13	14	30	24	9	11	13	13 − 13	14	10	10	20	15	18	21	12	Frigi et al., 2006
				SEJ 4	1	-	E1b1b (100%)	13	14	30	24	9	11	13	13 − 14	14	10	10	20	15	18	21	12	Frigi et al., 2006
				SEJ 5	3	-	E1b1b (100%)	13	14	30	24	9	11	13	13 − 14	14	10	10	20	16	17	21	12	Frigi et al., 2006
				SEJ 6	1	-	E1b1b (100%)	13	14	30	24	9	11	13	13 − 14	14	10	10	20	16	18	21	12	Frigi et al., 2006
				SEJ 7	1	-	E1b1b (99.8%)	13	14	30	24	9	11	13	13 − 14	14	10	10	21	15	18	21	12	Frigi et al., 2006
				SEJ 8	1	-	E1b1b (100%)	13	14	30	24	9	11	13	13 − 14	14	10	10	20	16	16	21	12	Frigi et al., 2006
				SEJ 9	1	-	E1b1b (99.6%)	13	14	30	24	9	11	13	13 − 15	14	10	10	20	16	17	21	12	Frigi et al., 2006
				SEJ 10	1	-	E1b1b (98.7%)	13	14	30	24	9	11	13	14 − 15	14	10	10	21	16	17	21	12	Frigi et al., 2006
				SEJ 11	1	-	E1b1b (100%)	13	14	30	24	9	11	14	13 − 14	14	10	10	20	15	19	21	11	Frigi et al., 2006
				SEJ 12	1	-	E1b1b (99.9%)	13	14	30	24	10	11	13	13 − 14	14	10	10	20	15	16	21	12	Frigi et al., 2006
				SEJ 13	1	-	E1b1b (44.9%)	13	14	30	24	10	11	13	14 − 14	14	9	10	20	15	17	21	12	Frigi et al., 2006
				SEJ 14	8	-	E1b1b (99.5%)	13	14	30	24	10	11	13	14 − 14	14	10	10	20	15	17	21	12	Frigi et al., 2006
				SEJ 15	1	-	E1b1b (99.7%)	13	14	30	24	10	11	13	14 − 14	14	10	10	20	15	18	21	12	Frigi et al., 2006
				SEJ 16	1	-	J1 (99.9%)	14	12	28	23	11	11	12	13 − 18	14	10	11	21	14	18.2	22	10	Frigi et al., 2006
				SEJ 17	1	-	I1 (100%)	14	12	29	22	10	11	13	13 − 14	16	10	11	20	14	15	21	11	Frigi et al., 2006
				SEJ 18	1	-	J2a4b (99.8%)	14	13	29	22	10	10	12	13 − 16	15	9	11	20	15	18	24	11	Frigi et al., 2006
				SEJ 19	1	-	J1 (100%)	14	13	29	23	11	11	12	13 − 18	14	10	11	21	14	18.2	22	10	Frigi et al., 2006
				SEJ 20	1	-	J1 (99.9%)	14	13	29	23	11	11	12	14 − 18	14	10	11	21	14	18.2	21	11	Frigi et al., 2006

				SEJ 21	1	-	J1 (100%)	14	13	29	23	12	11	12	13 – 18	14	10	11	21	14	18.2	21	11	Frigi et al., 2006
				SEJ 22	1	-	J1 (99.9%)	14	13	29	23	12	11	12	14 – 18	14	10	11	20	14	18.2	22	11	Frigi et al., 2006
				SEJ 23	1	-	J1 (100%)	14	13	30	22	11	11	12	13 – 19	14	10	12	20	14	18.2	21	11	Frigi et al., 2006
				SEJ 24	1	-	J1 (100%)	14	13	30	23	10	11	12	13 – 17	14	10	11	20	14	19.2	21	11	Frigi et al., 2006
				SEJ 25	2	-	J1 (99.4%)	14	13	30	23	10	11	13	13 – 19	14	10	11	20	15	18.2	21	11	Frigi et al., 2006
				SEJ 26	1	-	J1 (99.5%)	14	13	30	23	10	11	13	13 – 20	14	10	11	20	15	18.2	21	11	Frigi et al., 2006
				SEJ 27	2	-	J1 (100%)	14	13	30	23	11	11	12	13 – 18	14	10	11	20	14	18.2	21	11	Frigi et al., 2006
				SEJ 28	1	-	J1 (100%)	14	13	30	23	11	11	12	13 – 18	14	10	11	19	14	17.2	20	11	Frigi et al., 2006
				SEJ 29	1	-	J1 (100%)	14	13	30	23	12	11	12	13 – 18	14	10	11	20	14	17.2	21	11	Frigi et al., 2006
				SEJ 30	1	-	J1 (100%)	14	13	30	23	12	11	12	13 – 19	14	10	11	20	14	18.2	21	11	Frigi et al., 2006
				SEJ 31	1	-	J1 (99.4%)	14	13	31	24	11	11	11	13 – 19	14	10	11	20	14	18.2	21	11	Frigi et al., 2006
				SEJ 32	1	-	L (75.1%)	14	14	30	25	9	13	13	15 – 18	15	8	12	19	15	19	22	12	Frigi et al., 2006
				SEJ 33	1	-	G2a (100%)	15	12	30	22	10	11	13	12 – 14	16	10	11	21	14	18	21	10	Frigi et al., 2006
				SEJ 34	1	-	I2a (xI2a1) (98.8%)	15	14	32	24	10	11	13	11 – 11	15	10	12	22	13	18	17	12	Frigi et al., 2006
				SEJ 35	1	-	I2a (xI2a1) (98.8%)	15	14	32	24	10	11	13	11 – 11	15	10	12	22	13	19	17	13	Frigi et al., 2006
				SEJ 36	1	-	E1b1a (100%)	16	13	30	21	10	11	13	16 – 16	14	12	12	21	13	18	22	12	Frigi et al., 2006
		Takrouna	19																					
				TAK 1	1	-	E1b1b (100%)	13	12	29	24	10	11	13	17 – 18	14	10	10	20	15	14	23	11	Frigi et al., 2006
				TAK 2	2	-	E1b1b (100%)	13	13	30	24	9	11	13	13 – 14	14	10	11	20	16	20	22	12	Frigi et al., 2006
				TAK 3	1	-	E1b1b (97.4%)	13	14	30	23	9	11	13	14 – 16	14	10	10	20	15	18	21	12	Frigi et al., 2006
				TAK 4	1	-	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	10	20	15	19	23	12	Frigi et al., 2006
				TAK 5	1	-	E1b1b (99.6%)	13	14	30	24	9	11	13	13 – 15	14	10	10	20	15	17	22	12	Frigi et al., 2006
				TAK 6	6	-	E1b1b (99.6%)	13	14	30	24	9	11	13	13 – 15	14	10	10	20	16	17	21	12	Frigi et al., 2006
				TAK 7	1	-	E1b1b (99.9%)	13	14	30	24	9	11	13	13 – 15	14	10	10	20	16	17	22	12	Frigi et al., 2006
				TAK 8	1	-	E1b1b (99.6%)	13	14	30	24	9	11	13	13 – 15	14	10	10	20	17	17	21	12	Frigi et al., 2006
				TAK 9	1	-	E1b1b (100%)	13	14	30	24	9	11	13	14 – 14	14	10	10	20	16	17	21	12	Frigi et al., 2006
				TAK 10	1	-	E1b1b (100%)	13	14	30	24	9	11	14	13 – 15	14	10	10	20	16	17	22	12	Frigi et al., 2006
				TAK 11	2	-	E1b1b (100%)	13	14	30	25	9	11	13	13 – 14	14	10	11	20	16	17	22	12	Frigi et al., 2006
				TAK 12	1	-	E1b1b (70.4%)	14	15	31	24	9	11	13	13 – 15	14	10	10	20	16	18	21	12	Frigi et al., 2006
		Chenini-Douiret	27																					
				CHE 1	1	E1-M81(xM107, M165)	E1b1b (97.5%)	13	13	12	24	9	10	11	13 – 15	14	10	10	20	16	18	21	10	Fadhlaoui-Zid et al., 2011
				CHE 2	1	E1-M81(xM107, M165)	E1b1b (95.9%)	13	13	28	24	9	10	11	13 – 15	14	10	9	20	16	18	21	11	Fadhlaoui-Zid et al., 2011
				CHE 3	1	E1-M81(xM107, M165)	E1b1b (86.8%)	13	13	30	24	9	10	11	9 – 14	14	10	9	20	16	18	21	11	Fadhlaoui-Zid et al., 2011
				CHE 4	1	E1-M81(xM107, M165)	E1b1b (100%)	13	13	30	24	9	10	11	13 – 14	14	10	9	20	16	18	21	11	Fadhlaoui-Zid et al., 2011
				CHE 5	2	E1-M81(xM107, M165)	E1b1b (100%)	13	13	30	24	9	10	11	13 – 14	14	10	9	20	16	19	21	10	Fadhlaoui-Zid et al., 2011
				CHE 6	2	E1-M81(xM107, M165)	E1b1b (98.4%)	13	13	30	24	9	10	11	13 – 15	14	10	9	20	16	18	21	11	Fadhlaoui-Zid et al., 2011
				CHE 7	1	E1-M81(xM107, M165)	E1b1b (85.7%)	13	13	30	24	9	10	11	13 – 15	14	10	10	20	15	18	21	10	Fadhlaoui-Zid et al., 2011
				CHE 8	1	E1-M81(xM107, M165)	E1b1b (99.5%)	13	13	30	24	10	10	11	13 – 14	14	10	9	20	16	18	21	12	Fadhlaoui-Zid et al., 2011
				CHE 9	1	E1-M81(xM107, M165)	E1b1b (98.6%)	13	14	28	24	9	11	13	13 – 15	14	10	10	20	16	18	21	11	Fadhlaoui-Zid et al., 2011
				CHE 10	1	E1-M81(xM107, M165)	E1b1b (99.9%)	13	14	30	23	9	11	13	14 – 14	14	10	10	20	16	18	21	11	Fadhlaoui-Zid et al., 2011
				CHE 11	1	E1-M81(xM107, M165)	E1b1b (99.9%)	13	14	30	23	9	11	13	14 – 14	14	10	10	20	16	19	21	11	Fadhlaoui-Zid et al., 2011
				CHE 12	1	E1-M81(xM107, M165)	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	18	21	10	Fadhlaoui-Zid et al., 2011
				CHE 13	1	E1-M81(xM107, M165)	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	18	21	11	Fadhlaoui-Zid et al., 2011
				CHE 14	1	E1-M81(xM107, M165)	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	18	21	12	Fadhlaoui-Zid et al., 2011
				CHE 15	1	E1-M81(xM107, M165)	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	19	21	10	Fadhlaoui-Zid et al., 2011
				CHE 16	1	E1-M81(xM107, M165)	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	11	20	16	18	21	11	Fadhlaoui-Zid et al., 2011
				CHE 17	2	E1-M81(xM107, M165)	J1 (60.1%)	13	14	30	24	10	11	12	13 – 14	14	10	11	20	16	18	21	12	Fadhlaoui-Zid et al., 2011
				CHE 18	1	E1-M81(xM107, M165)	J1 (88.8%)	13	14	30	25	10	11	12	13 – 14	14	10	11	20	16	17	21	12	Fadhlaoui-Zid et al., 2011
				CHE 19	1	E1-M81(xM107, M165)	J1 (84.1%)	13	14	30	25	10	11	12	13 – 14	14	10	11	20	16	18	21	12	Fadhlaoui-Zid et al., 2011
				CHE 20	1	E1-M81(xM107, M165)	E1b1b (99.9%)	13	14	31	24	10	11	13	13 – 14	14	10	11	19	15	18	22	12	Fadhlaoui-Zid et al., 2011
				CHE 21	2	E1-M81(xM107, M165)	E1b1b (96.8%)	14	12	29	24	9	10	11	13 – 14	14	10	9	20	16	18	21	12	Fadhlaoui-Zid et al., 2011
				CHE 22	1	E1-M81(xM107, M165)	E1b1b (99.7%)	14	14	31	24	9	11	13	13 – 14	14	10	10	20	17	18	21	14	Fadhlaoui-Zid et al., 2011
				CHE 23	1	E1-M81(xM107, M165)	E1b1b (99.9%)	14	14	31	24	9	11	13	14 – 14	14	10	10	20	17	18	22	12	Fadhlaoui-Zid et al., 2011
		Jradou	32																					
				JRA 1	1	E1-M81(xM107, M165)	E1b1b (100%)	13	13	29	24	9	11	13	13 – 14	14	10	10	20	16	17	21	12	Fadhlaoui-Zid et al., 2011
				JRA 2	5	E1-M81(xM107, M165)	E1b1b (100%)	13	13	29	24	9	11	13	13 – 14	14	10	10	20	16	17	22	12	Fadhlaoui-Zid et al., 2011
				JRA 3	1	E1-M81(xM107, M165)	E1b1b (100%)	13	13	29	24	9	11	13	13 – 14	14	10	10	20	16	18	21	12	Fadhlaoui-Zid et al., 2011
				JRA 4	2	E1-M81(xM107, M165)	E1b1b (100%)	13	13	29	24	9	11	13	13 – 14	14	10	10	20	16	18	22	12	Fadhlaoui-Zid et al., 2011
				JRA 5	1	E1-M81(xM107, M165)	E1b1b (100%)	13	13	29	24	9	11	13	13 – 14	14	10	11	20	16	17	21	12	Fadhlaoui-Zid et al., 2011
				JRA 6	2	E1-M81(xM107, M165)	E1b1b (100%)	13	13	29	24	9	11	13	13 – 14	14	10	11	20	16	17	22	12	Fadhlaoui-Zid et al., 2011
				JRA 7	1	E1-M81(xM107, M165)	E1b1b (100%)	13	13	29	24	9	11	13	13 – 14	14	10	11	20	16	20	22	12	Fadhlaoui-Zid et al., 2011
				JRA 8	1	E1-M81(xM107, M165)	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	17	21	12	Fadhlaoui-Zid et al., 2011
				JRA 9	1	E1-M81(xM107, M165)	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	17	22	12	Fadhlaoui-Zid et al., 2011
				JRA 10	12	E1-M81(xM107, M165)	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	18	22	12	Fadhlaoui-Zid et al., 2011
				JRA 11	1	E1-M81(xM107, M165)	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	19	21	12	Fadhlaoui-Zid et al., 2011
				JRA 12	1	E1-M81(xM107, M165)	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	10	20	17	18	21	12	Fadhlaoui-Zid et al., 2011
				JRA 13	2	E1-M81(xM107, M165)	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	11	20	16	17	22	12	Fadhlaoui-Zid et al., 2011
				JRA 14	1	E1-M81(xM107, M165)	E1b1b (100%)	13	14	30	25	9	11	13	13 – 14	14	10	11	20	16	17	22	12	Fadhlaoui-Zid et al., 2011
		Sened	35																					
				SEN 1	1	E1-M81(xM107, M165)	E1b1b (99.9%)	13	13	29	24	9	11	13	13 – 14	14	10	10	20	15	17	21	12	Fadhlaoui-Zid et al., 2011
				SEN 2	1	E1-M81(xM107, M165)	E1b1b (97.8%)	13	13	29	24	9	11	13	13 – 15	14	10	11	20	16	17	21	13	Fadhlaoui-Zid et al., 2011
				SEN 3	1	F-M89	E1b1b (98.6%)	13	13	29	24	10	11	13	13 – 14	14	10	10	20	15	17	21	12	Fadhlaoui-Zid et al., 2011
				SEN 4	1	E1-M81(xM107, M165)	E1b1b (98.8%)	13	14	30	23	9	11	13	13 – 14	14	10	10	20	15	18	21	12	Fadhlaoui-Zid et al., 2011
				SEN 5	2	E1-M81(xM107, M165)	E1b1b (99.8%)	13	14	30	23	9	11	13	13 – 14	14	10	10	20	16	18	21	12	Fadhlaoui-Zid et al., 2011
				SEN 6	1	E1-M81(xM107, M165)	E1b1b (99.5%)	13	14	30	24	8	11	13	12 – 14	14	10	10	20	15	17	21	12	Fadhlaoui-Zid et al., 2011
				SEN 7	1	E1-M81(xM107, M165)	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	10	19	15	19	21	12	Fadhlaoui-Zid et al., 2011
				SEN 8	2	E1-M81(xM107, M165)	E1b1b (99.9%)	13	14	30	24	9	11	13	13 – 14	14	10	10	20	15	17	21	12	Fadhlaoui-Zid et al., 2011
				SEN 9	2	E1-M81(xM107, M165)	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	10	20	15	17	22	12	Fadhlaoui-Zid et al., 2011
				SEN 10	1	E1-M81(xM107, M165)	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	10	20	15	18	21	12	Fadhlaoui-Zid et al., 2011
				SEN 11	1	E1-M81(xM107, M165)	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	10	20	15	19	21	12	Fadhlaoui-Zid et al., 2011
				SEN 12	4	E1-M81(xM107, M165)	E1b1b (99.8%)	13	14	30	24	9	11	13	13 – 14	14	10	10	21	15	18	21	12	Fadhlaoui-Zid et al., 2011
				SEN 13	1	E1-M81(xM107, M165)	E1b1b (100%)	13	14	30	24	9	11	14	13 – 14	14	10	10	20	15	18	22	12	Fadhlaoui-Zid et al., 2011
				SEN 14	2	E1-M81(xM107, M165)	E1b1b (99%)	13	14	30	24	10	11	13	13 – 14	14	10	10	20	15	17	21	12	Fadhlaoui-Zid et al., 2011
				SEN 15	1	E1-M81(xM107, M165)	E1b1b (100%)	13	14	30	24	10	11	13	13 – 14	14	10	10	20	16	16	21	12	Fadhlaoui-Zid et al., 2011
				SEN 16	1	E1-M81(xM107, M165)	E1b1b (99.7%)	13	14	30	25	9	11	13	13 – 14	14	10	10	20	14	17	21	12	Fadhlaoui-Zid et al., 2011
				SEN 17	1	E1-M81(xM107, M165)	E1b1b (99.4%)	13	14	31	24	9	11	13	13 – 15	14	10	10	20	15	18	21	12	Fadhlaoui-Zid et al., 2011
				SEN 18	1	J1-P58	J1 (100%)	14	13	29	23	11	11	12	12 – 19	14	10	11	20	14	18.2	20	11	Fadhlaoui-Zid et al., 2011
				SEN 19	3	J1-P58	J1 (100%)	14	13	29	23	11	11	12	13 – 19	14	10	11	20	14	18.2	20	11	Fadhlaoui-Zid et al., 2011
				SEN 20	1	J1-P58	J1 (100%)	14	13	30	22	11	11	12	10 – 20	14	10	11	20	14	18.2	21	11	Fadhlaoui-Zid et al., 2011
				SEN 21	1	J1-P58	J1 (100%)	14	13	30	23	11	11	12	13 – 19	14	10	11	20	14	18.2	20	11	Fadhlaoui-Zid et al., 2011
				SEN 22	1	J1-P58	J1 (100%)	14	13	30	24	10	11	12	13 – 20	14	10	11	20	14	18.2	20	11	Fadhlaoui-Zid et al., 2011
				SEN 23	2	J1-P58	J1 (100%)	14	13	30	24	11	11	12	13 – 19	14	10	11	20	14	18.2	20	11	Fadhlaoui-Zid et al., 2011
				SEN 24	1	J1-P58	J1 (100%)	14	13	31	23	11	11	12	13 – 17	14	10	10	20	14	18.2	20	11	Fadhlaoui-Zid et al., 2011
				SEN 25	1	J1-P58	J1 (100%)	15	13	30	23	11	11	12	13 – 19	14	10	11	20	14	18.2	20	11	Fadhlaoui-Zid et al., 2011
	Adalusians		32																					
		Zaghouan	"																					
				ZAG 1	1	J2-M158	J2a4 (x bh) (77%)	13	13	29	22	10	11	12	13 – 17	15	9	12	20	16	15	21	11	Fadhlaoui-Zid et al., 2011
				ZAG 2	1	E1-M81(xM107, M165)	E1b1b (100%)	13	13	29	24	9	11	13	12 – 14	14	10	10	20	15	18	22	12	Fadhlaoui-Zid et al., 2011
				ZAG 3	1	E1-M81(xM107, M165)	E1b1b (100%)	13	13	29	24	9	11	13	13 – 14	14	10	10	20	16	17	21	12	Fadhlaoui-Zid et al., 2011
				ZAG 4	1	E1-M81(xM107, M165)	E1b1b (99.8%)	13	13	29	24	9	11	13	13 – 14	14	10	11	20	15	18	21	12	Fadhlaoui-Zid et al., 2011
				ZAG 5	1	E1-M81(xM107, M165)	E1b1b (94.6%)	13	14	30	23	9	11	13	14 – 15	14	10	10	20	16	17	21	12	Fadhlaoui-Zid et al., 2011
				ZAG 6	1	E1-M81(xM107, M165)	E1b1b (99.8%)	13	14	30	24	9	11	11	13 – 14	14	10	10	20	15	16	21	11	Fadhlaoui-Zid et al., 2011
				ZAG 7	1	E1-M81(xM107, M165)	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	10	20	15	19	22	11	Fadhlaoui-Zid et al., 2011
				ZAG 8	1	E1-M81(xM107, M165)	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	17	21	12	Fadhlaoui-Zid et al., 2011
				ZAG 9	1	E1-M81(xM107, M165)	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	18	21	11	Fadhlaoui-Zid et al., 2011
				ZAG 10	1	E1-M81(xM107, M165)	E1b1b (99.8%)	13	14	30	24	9	11	13	13 – 15	14	10	10	20	15	16	21	12	Fadhlaoui-Zid et al., 2011
				ZAG 11	1	E1-M81(xM107, M165)	E1b1b (100%)	13	14	30	24	9	11	13	13 – 15	14	10	10	20	16	16	21	12	Fadhlaoui-Zid et al., 2011
				ZAG 12	1	E1-M81(xM107, M165)	E1b1b (99.6%)	13	14	30	24	9	11	13	13 – 15	14	10	10	20	16	17	21	12	Fadhlaoui-Zid et al., 2011
				ZAG 13	1	E1-M81(xM107, M165)	E1b1b (91.2%)	13	15	31	23	9	11	13	13 – 15	14	10	10	20	16	17	21	12	Fadhlaoui-Zid et al., 2011
				ZAG 14	1	E1-M81(xM107, M165)	E1b1b (99.9%)	13	15	32	24	9	11	13	13 – 15	14	10	10	20	16	17	21	11	Fadhlaoui-Zid et al., 2011
				ZAG 15	1	E1-M78	E1b1b (100%)	14	12	29	23	10	11	13	17 – 18	14	10	10	20	16	14	21	11	Fadhlaoui-Zid et al., 2011
				ZAG 16	1	F-M89	J1 (100%)	14	12	29	23	11	11	12	13 – 19	14	10	11	21	14	18.2	21	11	Fadhlaoui-Zid et al., 2011
				ZAG 17	1	J1-P58	J1 (100%)	14	13	29	22	11	11	12	13 – 19	14	10	11	20	14	18.2	21	11	Fadhlaoui-Zid et al., 2011
				ZAG 18	1	J1-P58	J1 (100%)	14	13	29	23	11	11	12	13 – 19	14	10	11	20	15	18.2	21	11	Fadhlaoui-Zid et al., 2011
				ZAG 19	1	J1-P58	J1 (100%)	14	13	30	22	11	11	12	13 – 19	14	10	11	20	14	18.2	21	11	Fadhlaoui-Zid et al., 2011
				ZAG 20	1	J1-P58	J1 (100%)	14	13	30	23	10	11	12	13 – 18	14	10	11	20	14	18.2	21	11	Fadhlaoui-Zid et al., 2011
				ZAG 21	1	J1-P58	J1 (100%)	14	13	30	23	11	11	12	13 – 18	14	10	11	20	14	18.2	21	11	Fadhlaoui-Zid et al., 2011
				ZAG 22	2	J1-P58	J1 (100%)	14	13	30	23	11	11	12	13 – 19	14	10	11	20	14	18.2	21	11	Fadhlaoui-Zid et al., 2011
				ZAG 23	2	J1-P58	J1 (100%)	14	13	30	23	11	11	12	13 – 19	14	10	12	20	14	18.2	21	12	Fadhlaoui-Zid et al., 2011
				ZAG 24	2	J1-P58	J1 (100%)	14	13	30	23	12	11	12	13 – 19	14	10	11	20	14	18.2	21	11	Fadhlaoui-Zid et al., 2011
				ZAG 25	1	J1-P58	J1 (100%)	14	13	30	23	12	11	12	13 – 19	14	10	11	20	14	18.2	22	11	Fadhlaoui-Zid et al., 2011
				ZAG 26	1	J1-P58	J1 (100%)	14	13	31	23	12	11	12	13 – 19	14	10	11	20	14	18.2	21	11	Fadhlaoui-Zid et al., 2011
				ZAG 27	1	F-M89	E1b1b (93%)	14	14	31	23	9	11	13	13 – 14	14	10	10	20	17	18	21	12	Fadhlaoui-Zid et al., 2011
				ZAG 28	1	J1-P58	J1 (100%)	14	14	31	23	11	11	12	13 – 19	14	10	12	20	15	18.2	21	11	Fadhlaoui-Zid et al., 2011
				ZAG 29	1	F-M89	R1a (100%)	16	13	30	24	10	11	13	11 – 15	14	11	10	20	15	15	24	13	Fadhlaoui-Zid et al., 2011
	Arabs		33																					
		Tunis	"																					
				TUN 1	1	E1-M81(xM107, M165)	E1b1b (100%)	13	13	29	24	9	11	13	13 – 14	14	10	10	19	17	19	21	12	Fadhlaoui-Zid et al., 2011
				TUN 2	1	E1-M81(xM107, M165)	E1b1b (99.6%)	13	13	29	24	9	11	13	13 – 16	14	10	10	20	15	17	21	12	Fadhlaoui-Zid et al., 2011
				TUN 3	1	E1-M78	E1b1b (100%)	13	13	30	25	10	11	13	16 – 16	14	10	12	20	15	15	23	12	Fadhlaoui-Zid et al., 2011
				TUN 4	1	E1-M81(xM107, M165)	E1b1b (99.2%)	13	14	30	24	9	11	13	13 – 13	14	10	10	20	15	18	21	12	Fadhlaoui-Zid et al., 2011
				TUN 5	1	E1-M81(xM107, M165)	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	10	20	15	18	21	12	Fadhlaoui-Zid et al., 2011
				TUN 6	1	E1-M123	E1b1b (99.3%)	13	13	30	24	9	11	13	13 – 15	14	10	8	20	16	17	21	12	Fadhlaoui-Zid et al., 2011
				TUN 7	3	E1-M81(xM107, M165)	E1b1b (99.6%)	13	14	30	24	9	11	13	13 – 15	14	10	10	20	16	17	21	12	Fadhlaoui-Zid et al., 2011
				TUN 8	1	E1-M81(xM107, M165)	E1b1b (99.9%)	13	14	30	24	9	11	13	13 – 15	14	10	10	20	16	17	22	12	Fadhlaoui-Zid et al., 2011
				TUN 9	1	E1-M78	E1b1b (99.7%)	13	14	30	24	10	11	13	13 – 14	14	10	11	20	16	19	21	12	Fadhlaoui-Zid et al., 2011
				TUN 10	1	E1-M81(xM107, M165)	E1b1b (100%)	13	14	31	23	10	11	13	16 – 17	14	10	12	19	15	19	23	11	Fadhlaoui-Zid et al., 2011
				TUN 11	1	E1-M81(xM107, M165)	E1b1b (100%)	13	14	31	24	9	11	13	13 – 14	14	10	10	20	16	16	21	12	Fadhlaoui-Zid et al., 2011
				TUN 12	1	E1-M81(xM107, M165)	E1b1b (99.9%)	13	14	31	24	10	11	13	13 – 14	14	10	11	19	16	18	21	12	Fadhlaoui-Zid et al., 2011
				TUN 13	1	E1-M81(xM107, M165)	E1b1b (100%)	13	14	31	24	10	11	13	19 – 21	14	10	12	20	14	14	21	13	Fadhlaoui-Zid et al., 2011
				TUN 14	1	E1-M81(xM107, M165)	E1b1b (99.8%)	13	15	31	24	9	11	13	13 – 15	14	10	10	20	16	18	21	12	Fadhlaoui-Zid et al., 2011
				TUN 15	1	E1-M81(xM107, M165)	E1b1b (94.4%)	14	10	26	23	10	17	14	11 – 19	15	9	11	19	15	17	21	10	Fadhlaoui-Zid et al., 2011
				TUN 16	1	E1-M81(xM107, M165)	E1b1b (100%)	14	12	29	23	11	11	13	16 – 18	14	10	12	20	15	14	21	13	Fadhlaoui-Zid et al., 2011
				TUN 17	1	J1-P58	J1 (100%)	14	13	30	23	11	11	12	13 – 18	14	10	11	20	14	18.2	21	11	Fadhlaoui-Zid et al., 2011
				TUN 18	1	J1-P58	J1 (100%)	14	13	30	23	11	11	12	13 – 19	14	10	11	20	14	18.2	20	11	Fadhlaoui-Zid et al., 2011
				TUN 19	1	J1-P58	J1 (100%)	14	13	30	23	11	11	12	13 – 19	14	10	11	20	14	18.2	21	11	Fadhlaoui-Zid et al., 2011
				TUN 20	1	J1-P58	J1 (100%)	14	13	30	23	11	11	12	13 – 19	14	10	11	20	14	19.2	21	11	Fadhlaoui-Zid et al., 2011
				TUN 21	1	J1-P58	J1 (99.9%)	14	13	30	23	11	11	12	14 – 20	14	10	11	21	15	19.2	21	11	Fadhlaoui-Zid et al., 2011
				TUN 22	1	J1-P58	J1 (100%)	14	13	30	23	12	11	12	13 – 18	14	10	11	20	14	18.2	21	11	Fadhlaoui-Zid et al., 2011
				TUN 23	2	J1-P58	J1 (100%)	14	13	30	23	12	11	12	13 – 19	14	10	11	20	14	18.2	21	11	Fadhlaoui-Zid et al., 2011
				TUN 24	1	E1-M81(xM107, M165)	E1b1b (95.8%)	14	14	30	24	9	11	13	13 – 14	14	10	10	20	15	17	22	12	Fadhlaoui-Zid et al., 2011
				TUN 25	1	E1-M81(xM107, M165)	E1b1b (98.7%)	14	14	31	24	9	11	13	13 – 14	14	10	11	20	16	17	21	11	Fadhlaoui-Zid et al., 2011
				TUN 26	1	F-M89	J1 (100%)	15	12	29	23	10	11	12	13 – 18	14	10	10	20	15	19.2	20	11	Fadhlaoui-Zid et al., 2011
				TUN 27	1	G2-P15	G2a (100%)	15	13	29	22	10	11	14	14 – 16	14	10	11	21	17	16	21	11	Fadhlaoui-Zid et al., 2011
				TUN 28	1	E1-M81(xM107, M165)	C3 (92.3%)	15	13	30	24	9	11	13	13 – 14	14	10	10	20	16	18	21	11	Fadhlaoui-Zid et al., 2011
				TUN 29	1	F-M89	I2a1 (49.2%)	15	14	31	22	10	11	13	12 – 12	14	10	11	20	14	18	20	14	Fadhlaoui-Zid et al., 2011
				TUN 30	1	E1-M35(xM78, M81, M123)	E1b1a (100%)	17	13	30	21	10	11	15	17 – 17	14	11	13	21	15	17	23	12	Fadhlaoui-Zid et al., 2011
Algeria																								
	Arabs		102																					
		Oran	"																					
				ORA 1	1	E3b1-M78	E1b1b (100%)	13	11	28	21	10	11	13	17 – 18	14	10	10	20	15	15	21	11	Robino et al., 2008
				ORA 2	1	E3b2-M81	E1b1b (99.9%)	13	12	28	24	10	11	13	13 – 14	14	10	11	20	16	16	21	11	Robino et al., 2008
				ORA 3	1	E3b1-M78	E1b1b (100%)	13	12	29	23	10	11	12	17 – 18	14	10	10	20	15	15	21	11	Robino et al., 2008
				ORA 4	1	J1-M267	E1b1b (55.6%)	13	12	29	24	10	11	12	12 – 16	14	10	12	20	16	18.2	19	10	Robino et al., 2008
				ORA 5	1	E3b2-M81	E1b1b (82.2%)	13	13	29	23	10	11	13	13 – 13	14	10	12	20	16	18	21	12	Robino et al., 2008
				ORA 6	1	E3b2-M81	E1b1b (100%)	13	13	29	24	9	11	13	13 – 14	14	10	10	20	16	16	21	12	Robino et al., 2008
				ORA 7	1	E3b2-M81	E1b1b (100%)	13	13	29	24	9	11	13	13 – 14	14	10	10	20	16	19	22	12	Robino et al., 2008
				ORA 8	1	E3b2-M81	E1b1b (99.8%)	13	13	29	24	9	11	13	13 – 14	14	10	11	20	15	18	21	12	Robino et al., 2008
				ORA 9	1	E3b2-M81	E1b1b (100%)	13	13	29	24	9	11	13	13 – 14	14	10	10	20	16	18	21	12	Robino et al., 2008
				ORA 10	1	E3b2-M81	E1b1b (97%)	13	13	29	24	9	11	13	13 – 15	14	10	10	20	16	18	20	12	Robino et al., 2008
				ORA 11	1	R1b3-M269	R1b (100%)	13	13	29	24	11	13	12	11 – 13	15	12	12	19	16	17	24	12	Robino et al., 2008
				ORA 12	1	E3b2-M81	E1b1b (100%)	13	13	30	24	9	11	13	13 – 14	14	10	10	19	16	17	21	12	Robino et al., 2008
				ORA 13	1	E3b2-M81	E1b1b (99.9%)	13	13	30	24	9	11	13	13 – 14	14	10	11	20	15	18	21	12	Robino et al., 2008
				ORA 14	1	E3b1-M78	E1b1b (100%)	13	13	31	23	10	11	13	16 – 18	14	10	10	20	17	16	21	12	Robino et al., 2008
				ORA 15	1	Q-M242	Q (100%)	13	14	30	22	10	15	13	14 – 16	14	11	12	19	15	18	23	11	Robino et al., 2008
				ORA 16	1	E3b2-M81	J1 (92.5%)	13	14	30	23	10	11	13	13 – 15	14	10	11	19	15	18	21	11	Robino et al., 2008
				ORA 17	3	E3b2-M81	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	10	20	15	18	21	12	Robino et al., 2008
				ORA 18	1	E3b2-M81	E1b1b (99.9%)	13	14	30	24	9	11	13	13 – 14	14	10	10	20	15	20	21	12	Robino et al., 2008
				ORA 19	1	E3b2-M81	E1b1b (99.9%)	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	16	21	11	Robino et al., 2008
				ORA 20	1	E3b2-M81	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	17	21	12	Robino et al., 2008
				ORA 21	1	E3b2-M81	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	18	21	12	Robino et al., 2008
				ORA 22	1	E3b2-M81	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	19	21	12	Robino et al., 2008
				ORA 23	1	E3b2-M81	E1b1b (99.7%)	13	14	30	24	9	11	13	13 – 14	14	10	10	21	15	17	21	12	Robino et al., 2008
				ORA 24	1	E3b2-M81	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	10	21	16	19	21	11	Robino et al., 2008
				ORA 25	1	E3b2-M81	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	10	11	20	16	18	21	12	Robino et al., 2008
				ORA 26	1	E3b2-M81	E1b1b (99.7%)	13	14	30	24	9	11	13	13 – 15	14	10	10	20	16	18	21	12	Robino et al., 2008
				ORA 27	1	E3b2-M81	E1b1b (100%)	13	14	30	24	9	11	13	13 – 14	14	11	10	20	16	19	22	12	Robino et al., 2008
				ORA 28	1	E3b2-M81	E1b1b (100%)	13	14	30	24	9	11	14	13 – 14	14	10	12	20	16	17	21	12	Robino et al., 2008
				ORA 29	1	E3b2-M81	E1b1b (99.7%)	13	14	30	24	10	11	13	13 – 13	14	10	11	20	16	18	22	12	Robino et al., 2008
				ORA 30	1	E3b2-M81	E1b1b (96.3%)	13	14	30	24	10	11	13	13 – 14	14	10	11	20	15	17	22	13	Robino et al., 2008
				ORA 31	1	E3b2-M81	E1b1b (97.5%)	13	14	30	24	10	11	13	13 – 14	14	10	11	20	15	18	21	12	Robino et al., 2008
				ORA 32	1	E3b2-M81	E1b1b (99.5%)	13	14	30	24	10	11	13	13 – 14	14	10	11	20	16	17	21	12	Robino et al., 2008
				ORA 33	4	E3b2-M81	E1b1b (99.6%)	13	14	30	24	10	11	13	13 – 14	14	10	11	20	16	18	21	12	Robino et al., 2008
				ORA 34	1	E3b2-M81	E1b1b (99.9%)	13	14	30	24	10	11	13	13 – 14	14	10	11	20	16	18	22	12	Robino et al., 2008
				ORA 35	1	E3b2-M81	E1b1b (99.7%)	13	14	30	24	10	11	13	13 – 14	14	10	11	20	16	19	21	12	Robino et al., 2008
				ORA 36	1	E3b2-M81	J1 (67.1%)	13	14	30	24	10	11	13	13 – 15	14	10	11	20	15	17	21	12	Robino et al., 2008
				ORA 37	1	E3b2-M81	E1b1b (97.4%)	13	14	30	24	10	11	13	13 – 16	14	10	11	20	16	17	21	12	Robino et al., 2008
				ORA 38	1	E3b2-M81	E1b1b (99.9%)	13	14	30	24	10	11	13	14 – 14	14	10	10	20	16	18	21	12	Robino et al., 2008
				ORA 39	1	E3b2-M81	E1b1b (99.8%)	13	14	30	24	10	11	13	14 – 14	14	10	11	20	16	18	21	12	Robino et al., 2008
				ORA 40	1	E3b2-M81	E1b1b (99.9%)	13	14	30	25	9	11	13	13 – 14	14	10	11	20	16	18	21	12	Robino et al., 2008
				ORA 41	1	E3b2-M81	E1b1b (100%)	13	14	30	25	9	11	13	13 – 14	14	10	10	20	17	18	21	12	Robino et al., 2008
				ORA 42	1	E3b2-M81	E1b1b (100%)	13	14	31	24	9	11	13	13 – 15	14	10	10	20	16	18	22	12	Robino et al., 2008
				ORA 43	1	E3b2-M81	E1b1b (99.9%)	13	14	31	24	10	11	13	13 – 14	14	10	11	20	16	18	21	12	Robino et al., 2008
				ORA 44	1	E3b1-M78	E1b1b (100%)	13	14	31	24	10	11	13	18 – 20	14	10	12	19	15	14	21	13	Robino et al., 2008
				ORA 45	1	R1b3-M269	R1b (100%)	13	14	31	24	11	13	14	11 – 13.2	15	12	12	19	14	16	23	12	Robino et al., 2008
				ORA 46	1	E3b2-M81	E1b1b (100%)	13	15	31	24	9	11	13	13 – 14	14	10	10	20	16	17	21	12	Robino et al., 2008
				ORA 47	1	E3b2-M81	E1b1b (100%)	13	16	32	24	9	11	13	13 – 14	14	10	10	20	16	18	21	12	Robino et al., 2008
				ORA 48	1	R1b3-M269	R1b (100%)	14	12	28	24	11	13	12	11 – 14	15	12	12	19	15	17	23	12	Robino et al., 2008
				ORA 49	1	E3b1-M78	E1b1b (100%)	14	12	29	25	11	11	13	16 – 18	14	10	12	20	14	14	21	13	Robino et al., 2008
				ORA 50	1	R1b3-M269	R1b (100%)	14	13	28	24	10	14	12	11 – 15	15	12	14	19	16	17	23	14	Robino et al., 2008
				ORA 51	1	J2f-M67	J2a4 (x bh) (59.7%)	14	13	29	23	10	11	12	13 – 19	15	9	10	20	16	16	22	11	Robino et al., 2008
				ORA 52	1	J1-M267	J1 (99.7%)	14	13	29	23	11	11	12	13 – 14	14	10	11	20	14	18.2	21	11	Robino et al., 2008
				ORA 53	2	J1-M267	J1 (100%)	14	13	29	23	11	11	12	13 – 19	14	10	11	20	14	18.2	21	11	Robino et al., 2008
				ORA 54	1	J1-M267	J1 (100%)	14	13	29	23	11	11	12	13 – 20	14	10	12	20	14	18.2	21	11	Robino et al., 2008
				ORA 55	1	J1-M267	J1 (99.9%)	14	13	29	24	10	11	12	13 – 19	14	10	12	20	15	19.2	21	10	Robino et al., 2008
				ORA 56	1	R1b3-M269	R1b (100%)	14	13	29	24	10	13	13	11 – 14	15	12	11	19	15	18	23	12	Robino et al., 2008
				ORA 57	1	J2f-M67	J2a4b (54.6%)	14	13	29	24	11	11	12	12 – 15	16	9	11	20	16	17	21	11	Robino et al., 2008
				ORA 58	1	R1b3-M269	R1b (100%)	14	13	29	24	11	13	13	11 – 14	14	12	11	19	15	18	23	12	Robino et al., 2008
				ORA 59	1	R1b3-M269	R1b (100%)	14	13	29	24	11	14	13	11 – 14	15	12	11	18	15	17	23	12	Robino et al., 2008
				ORA 60	1	J1-M267	J1 (89.2%)	14	13	29	25	9	11	12	13 – 14	14	10	12	21	15	18.2	22	10	Robino et al., 2008
				ORA 61	1	J1-M267	J1 (99.6%)	14	13	30	22	11	11	12	13 – 18	14	10	11	19	14	18.2	21	11	Robino et al., 2008
				ORA 62	1	J2f-M67	J2a4b (75.3%)	14	13	30	23	10	11	12	13 – 15	14	9	12	20	16	17	21	11	Robino et al., 2008
				ORA 63	1	J1-M267	J1 (100%)	14	13	30	23	10	11	12	13 – 19	14	10	11	20	14	18.2	21	11	Robino et al., 2008
				ORA 64	1	J1-M267	J1 (100%)	14	13	30	23	10	11	12	14 – 20	14	10	11	20	14	18.2	21	11	Robino et al., 2008
				ORA 65	1	J1-M267	J1 (100%)	14	13	30	23	11	11	12	12 – 19	14	10	11	20	14	18.2	21	11	Robino et al., 2008
				ORA 66	1	J1-M267	J1 (100%)	14	13	30	23	11	11	12	12 – 20	14	10	11	20	14	19.2	20	11	Robino et al., 2008
				ORA 67	1	J1-M267	J1 (99.9%)	14	13	30	23	11	11	12	13 – 18	14	10	11	20	14	18.2	22	11	Robino et al., 2008
				ORA 68	3	J1-M267	J1 (100%)	14	13	30	23	11	11	12	13 – 19	14	10	11	20	14	18.2	21	11	Robino et al., 2008
				ORA 69	1	J1-M267	J1 (100%)	14	13	30	23	11	11	12	13 – 19	14	10	11	20	14	19.2	21	11	Robino et al., 2008
				ORA 70	1	J1-M267	J1 (100%)	14	13	30	23	11	11	12	13 – 20	14	10	11	20	15	19.2	21	11	Robino et al., 2008
				ORA 71	1	J1-M267	J1 (100%)	14	13	30	23	11	11	12	14 – 19	14	10	11	20	14	19.2	21	11	Robino et al., 2008
				ORA 72	1	J1-M267	J1 (98.7%)	14	13	30	23	11	11	12	20 – 20	14	10	11	20	14	18.2	21	11	Robino et al., 2008

		ORA 73	1	J1-M267	**J1 (100%)**	14	13	30	23	12	11	12	13 – 19	14	10	11	20	14	18.2	21	11	Robino et al., 2008
		ORA 74	1	R1b3-M269	**R1b (100%)**	14	13	30	24	10	13	13	11 – 14	14	12	11	19	15	17	23	12	Robino et al., 2008
		ORA 75	1	E3b1-M78	**E1b1b (60.9%)**	14	13	30	24	11	12	12	16 – 17.2	14	10	12	20	15	17	21	11	Robino et al., 2008
		ORA 76	1	R1b3-M269	**R1b (100%)**	14	13	30	25	11	13	12	12 – 14	15	12	12	19	15	17	23	13	Robino et al., 2008
		ORA 77	1	J2f-M67	**J2a4 (x bh) (50.3%)**	14	13	31	22	10	11	12	14 – 15	15	9	11	21	16	15	21	11	Robino et al., 2008
		ORA 78	1	J1-M267	**J1 (99.8%)**	14	13	31	22	11	11	12	13 – 17	14	10	10	20	14	18.2	21	11	Robino et al., 2008
		ORA 79	1	J1-M267	**J1 (100%)**	14	13	31	23	11	11	12	12 – 19	14	10	11	20	14	18.2	20	11	Robino et al., 2008
		ORA 80	1	E3b2-M81	**J2a4b (62.7%)**	14	14	30	24	10	11	13	13 – 14	14	9,1	11	20	15	18	21	12	Robino et al., 2008
		ORA 81	1	R1b3-M269	**R1b (100%)**	14	14	30	24	11	13	13	11 – 14	15	13	13	19	15	18	23	12	Robino et al., 2008
		ORA 82	1	J2f-M67	**J2a4b (70.9%)**	15	13	29	23	10	11	12	13 – 15	15	9	10	21	17	16	21	11	Robino et al., 2008
		ORA 83	1	R1b3-M269	**R1b (100%)**	15	13	29	23	11	13	13	11 – 14	15	12	12	19	16	18	23	12	Robino et al., 2008
		ORA 84	1	E3a-M2	**E1b1a (99.9%)**	15	13	30	21	10	11	13	16 – 17	14	11	12	20	15	16	22	11	Robino et al., 2008
		ORA 85	1	E3a-M2	**E1b1a (99.9%)**	15	13	30	21	10	11	14	15 – 15	14	11	12	21	15	16	22	11	Robino et al., 2008
		ORA 86	1	R1-M173	**Q (65.8%)**	15	14	30	24	10	14	13	13 – 16	14	12	12	18	16	16	23	12	Robino et al., 2008
		ORA 87	1	E3a-M2	**E1b1a (100%)**	15	14	31	21	10	11	14	15 – 17	14	11	12	22	16	16	21	12	Robino et al., 2008
		ORA 88	1	R1a1-M17	**R1a (100%)**	16	13	30	25	11	11	13	11 – 14	14	11	11	20	17	16	25	12	Robino et al., 2008
		ORA 89	1	E3a-M2	**E1b1a (100%)**	16	14	32	21	11	11	13	16 – 17	14	11	12	21	16	17	21	12	Robino et al., 2008
		ORA 90	1	E3a-M2	**E1b1a (100%)**	17	13	30	21	10	11	14	14 – 18	14	11	11	22	16	17	21	11	Robino et al., 2008
		ORA 91	1	E3a-M2	**E1b1a (100%)**	17	13	30	21	10	11	14	16 – 16	14	11	12	21	15	18	21	11	Robino et al., 2008
		ORA 92	1	E3a-M2	**E1b1a (100%)**	17	13	30	22	10	11	13	16 – 17	14	12	11	21	15	16	22	10	Robino et al., 2008
		ORA 93	1	E3a-M2	**E1b1a (100%)**	17	14	32	21	10	11	13	17 – 19	14	11	11	21	15	18	22	11	Robino et al., 2008
Marocco																						
Berbers	**190**																					
Rabat	69																					
		B RAB 1	1	-	**E1b1b (99.9%)**	11	14	30	24	9	11	13	14 – 15	14	10	11	21	15	17	22	12	Aboukhalid et al., 2010
		B RAB 2	1	-	**E1b1b (99.6%)**	12	14	30	24	9	11	13	13 – 14	14	10	10	20	15	17	21	12	Aboukhalid et al., 2010
		B RAB 3	1	-	**E1b1b (99.7%)**	13	12	28	24	9	11	13	13 – 14	14	10	11	20	14	18	21	12	Aboukhalid et al., 2010
		B RAB 4	1	-	**E1b1b (100%)**	13	12	29	22	10	11	13	17 – 18	14	10	11	20	15	14	21	11	Aboukhalid et al., 2010
		B RAB 5	1	-	**E1b1b (100%)**	13	12	29	22	10	11	14	17 – 18	14	10	10	20	14	14	21	11	Aboukhalid et al., 2010
		B RAB 6	1	-	**E1b1b (100%)**	13	12	29	23	10	11	10	17 – 18	14	10	10	20	15	15	21	11	Aboukhalid et al., 2010
		B RAB 7	1	-	**E1b1b (100%)**	13	12	29	23	10	11	13	16 – 17	14	10	10	20	15	14	21	11	Aboukhalid et al., 2010
		B RAB 8	1	-	**E1b1b (100%)**	13	12	29	23	10	11	13	17 – 17	14	10	10	20	15	14	22	11	Aboukhalid et al., 2010
		B RAB 9	1	-	**E1b1b (98.3%)**	13	13	29	23	9	11	13	13 – 14	14	10	10	20	15	18	21	12	Aboukhalid et al., 2010
		B RAB 10	1	-	**E1b1b (99.9%)**	13	13	29	23	9	11	13	14 – 14	14	10	10	20	17	17	21	12	Aboukhalid et al., 2010
		B RAB 11	1	-	**E1b1b (99.9%)**	13	13	29	24	9	10	13	12 – 14	14	10	10	20	16	17	20	12	Aboukhalid et al., 2010
		B RAB 12	1	-	**E1b1b (100%)**	13	13	29	24	9	11	13	13 – 14	14	10	10	19	16	17	22	12	Aboukhalid et al., 2010
		B RAB 13	1	-	**E1b1b (100%)**	13	13	29	24	9	11	13	13 – 14	14	10	10	19	17	18	21	12	Aboukhalid et al., 2010
		B RAB 14	1	-	**E1b1b (99.9%)**	13	13	29	24	9	11	13	13 – 14	14	10	10	20	15	20	19	12	Aboukhalid et al., 2010
		B RAB 15	1	-	**E1b1b (100%)**	13	13	29	24	9	11	13	13 – 14	14	10	10	20	16	17	21	12	Aboukhalid et al., 2010
		B RAB 16	1	-	**E1b1b (100%)**	13	13	30	24	9	11	13	13 – 14	14	10	11	20	16	18	22	12	Aboukhalid et al., 2010
		B RAB 17	1	-	**E1b1b (97.6%)**	13	13	31	23	9	11	13	13 – 14	14	9	10	20	16	18	21	12	Aboukhalid et al., 2010
		B RAB 18	1	-	**E1b1b (100%)**	13	13	31	25	10	11	13	17 – 18	14	11	12	20	16	15	19	12	Aboukhalid et al., 2010
		B RAB 19	1	-	**E1b1b (100%)**	13	14	30	24	9	11	8	14 – 14	14	10	10	20	0	16	21	10	Aboukhalid et al., 2010
		B RAB 20	1	-	**E1b1b (99.7%)**	13	14	30	24	9	11	13	13 – 13	14	10	10	20	15	17	21	12	Aboukhalid et al., 2010
		B RAB 21	1	-	**E1b1b (99.7%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	15	18	20	12	Aboukhalid et al., 2010
		B RAB 22	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 15	14	10	10	20	15	19	22	12	Aboukhalid et al., 2010
		B RAB 23	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	18	21	12	Aboukhalid et al., 2010
		B RAB 24	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	21	16	19	22	12	Aboukhalid et al., 2010
		B RAB 25	1	-	**E1b1b (55.9%)**	13	14	30	24	9	11	13	13 – 15	14	9	10	20	15	18	21	12	Aboukhalid et al., 2010
		B RAB 26	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 15	14	10	10	20	16	19	22	12	Aboukhalid et al., 2010
		B RAB 27	1	-	**E1b1b (98.9%)**	13	14	30	24	9	11	13	13 – 15	14	10	11	20	15	18	22	12	Aboukhalid et al., 2010
		B RAB 28	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 16	14	10	10	20	16	18	21	12	Aboukhalid et al., 2010
		B RAB 29	1	-	**O3 (91.9%)**	13	14	30	24	11	10	8	13 – 19	14	10	12	20	0	18	21	10	Aboukhalid et al., 2010
		B RAB 30	1	-	**E1b1b (99.6%)**	13	14	33	22	9	11	13	12 – 16	14	10	14	22	15	14	22	11	Aboukhalid et al., 2010
		B RAB 31	1	-	**J2a4b (64.5%)**	14	12	28	23	11	11	13	15 – 16	15	8	12	20	15	17	21	12	Aboukhalid et al., 2010
		B RAB 32	1	-	**J1 (98.3%)**	14	13	29	23	11	11	8	13 – 19	14	10	11	20	0	19	21	10	Aboukhalid et al., 2010
		B RAB 33	1	-	**J1 (100%%)**	14	13	29	23	11	11	12	13 – 19	14	10	10	20	14	18	21	11	Aboukhalid et al., 2010
		B RAB 34	1	-	**J1 (96.6%%)**	14	13	29	24	11	11	12	14 – 15	14	11	11	19	15	18	21	12	Aboukhalid et al., 2010
		B RAB 35	1	-	**R1b (100%)**	14	13	29	24	11	13	13	11 – 14	15	12	11	19	15	17	23	12	Aboukhalid et al., 2010
		B RAB 36	1	-	**J1 (98.5%)**	14	13	30	22	11	11	8	13 – 19	14	10	12	20	0	19	21	10	Aboukhalid et al., 2010
		B RAB 37	1	-	**J1 (100%)**	14	13	30	23	10	11	12	13 – 19	14	10	11	20	14	20	21	11	Aboukhalid et al., 2010
		B RAB 38	1	-	**J1 (100%)**	14	13	30	23	11	11	12	13 – 19	14	10	11	20	14	18	21	11	Aboukhalid et al., 2010
		B RAB 39	1	-	**J1 (100%)**	14	13	30	23	11	11	12	13 – 19	14	10	11	20	14	18.2	21	11	Aboukhalid et al., 2010
		B RAB 40	1	-	**J1 (100%)**	14	13	30	23	11	11	12	18 – 19	14	10	11	20	14	18	21	11	Aboukhalid et al., 2010
		B RAB 41	1	-	**J1 (100%)**	14	13	30	23	12	11	12	13 – 17	14	10	11	20	14	18.2	21	11	Aboukhalid et al., 2010
		B RAB 42	1	-	**R1b (100%)**	14	13	30	24	10	13	13	12 – 15	15	12	11	19	16	17	23	13	Aboukhalid et al., 2010
		B RAB 43	1	-	**E1b1b (77.2%)**	14	13	30	25	10	11	13	13 – 13	14	11	13	19	15	18	23	11	Aboukhalid et al., 2010
		B RAB 44	1	-	**J1 (100%)**	14	13	31	23	11	11	12	13 – 19	14	10	11	20	14	19	21	11	Aboukhalid et al., 2010
		B RAB 45	1	-	**E1b1b (91.3%)**	14	14	29	23	9	12	8	14 – 14	14	10	10	20	14	16	22	10	Aboukhalid et al., 2010
		B RAB 46	1	-	**E1b1b (99.7%)**	14	14	30	23	9	11	13	13 – 14	14	10	10	20	16	15	22	12	Aboukhalid et al., 2010
		B RAB 47	1	-	**J1 (100%)**	14	14	30	23	10	11	12	13 – 19	14	10	11	20	14	18.2	22	11	Aboukhalid et al., 2010
		B RAB 48	1	-	**J1 (100%)**	14	14	30	23	11	11	12	13 – 19	14	10	11	20	14	19	21	11	Aboukhalid et al., 2010
		B RAB 49	1	-	**R1b (100%)**	14	14	30	23	11	13	12	11 – 14	15	12	11	19	15	16	23	12	Aboukhalid et al., 2010
		B RAB 50	1	-	**E1b1b (99.3%)**	14	14	30	24	9	11	13	13 – 14	14	10	10	20	16	18	22	12	Aboukhalid et al., 2010
		B RAB 51	1	-	**J1 (63.5%)**	14	14	30	24	9	11	13	13 – 15	14	10	10	20	15	18	21	12	Aboukhalid et al., 2010
		B RAB 52	1	-	**E1b1b (97%)**	14	14	30	24	9	12	13	14 – 16	14	10	10	20	15	17	22	12	Aboukhalid et al., 2010
		B RAB 53	1	-	**J2a4 (x bh) (63.9%)**	14	14	30	24	10	11	12	14 – 17	15	9	11	21	15	20	21	11	Aboukhalid et al., 2010
		B RAB 54	1	-	**R1b (100%)**	14	14	31	23	11	13	12	11 – 14	15	12	11	19	15	16	23	12	Aboukhalid et al., 2010
		B RAB 55	1	-	**R1b (100%)**	14	14	31	24	11	13	14	11 – 13	15	12	13	19	15	14	23	12	Aboukhalid et al., 2010
		B RAB 56	1	-	**G2a (100%)**	15	12	29	21	10	11	13	14 – 15	15	10	11	22	15	17	21	12	Aboukhalid et al., 2010
		B RAB 57	1	-	**E1b1a (100%)**	15	12	29	21	10	11	14	17 – 18	14	11	12	21	15	19	21	11	Aboukhalid et al., 2010
		B RAB 58	1	-	**E1b1a (99.8%)**	15	13	29	21	10	11	14	15 – 16	14	11	12	20	16	19	20	11	Aboukhalid et al., 2010
		B RAB 59	1	-	**E1b1a (100%)**	15	13	29	21	10	11	14	16 – 18	14	11	12	20	14	16	21	11	Aboukhalid et al., 2010
		B RAB 60	1	-	**R1b (100%)**	15	13	29	24	11	13	13	13 – 14	14	12	12	19	15	17	23	13	Aboukhalid et al., 2010
		B RAB 61	1	-	**E1b1a (100%)**	15	13	30	21	10	11	14	17 – 20	14	11	11	21	16	17	21	11	Aboukhalid et al., 2010
		B RAB 62	1	-	**E1b1a (100%)**	15	13	32	21	11	11	14	16 – 17	15	11	12	21	15	19	21	12	Aboukhalid et al., 2010
		B RAB 63	1	-	**G2a (100%)**	16	12	29	21	10	11	15	13 – 14	16	10	11	22	15	18	22	11	Aboukhalid et al., 2010
		B RAB 64	1	-	**E1b1a (98.9%)**	16	12	31	21	10	11	14	15 – 15	14	11	12	21	15	18	21	11	Aboukhalid et al., 2010
		B RAB 65	1	-	**E1b1a (99.9%)**	16	13	30	22	10	11	14	16 – 17	15	13	12	21	15	16	21	10	Aboukhalid et al., 2010
		B RAB 66	1	-	**E1a (98%)**	17	12	30	22	10	11	8	14 – 15	17	10	12	20	0	14	20	10	Aboukhalid et al., 2010
		B RAB 67	1	-	**E1b1a (100%)**	17	12	31	21	11	11	14	16 – 16	14	11	11	21	16	17	21	11	Aboukhalid et al., 2010
		B RAB 68	2	-	**E1b1a (100%)**	17	13	32	21	11	11	14	16 – 16	14	11	11	21	16	17	21	11	Aboukhalid et al., 2010
Figuig Oasis	52																					
		B FIG 1	1	-	**E1b1b (96.5%)**	**13**	**13**	29	24	10	11	13	13 – 14	14	10	11	20	15	18	21	12	Palet et al., 2010
		B FIG 2	1	-	**E1b1b (97.6%)**	**13**	**13**	29	24	11	11	13	13 – 14	14	10	11	20	15	18	21	12	Palet et al., 2010
		B FIG 3	1	-	**E1b1b (100%)**	**13**	**13**	31	24	10	11	15	16 – 16	14	10	12	19	15	16	21	11	Palet et al., 2010
		B FIG 4	1	-	**E1b1b (99.6%)**	**13**	**13**	31	25	10	11	15	15 – 16	14	10	13	19	15	16	21	11	Palet et al., 2010
		B FIG 5	4	-	**J1 (85.5%)**	**13**	**14**	30	23	11	11	12	13 – 14	14	10	10	20	16	19	21	12	Palet et al., 2010
		B FIG 6	1	-	**E1b1b (65.2%)**	**13**	**14**	30	23	11	11	13	13 – 14	14	10	11	20	15	18	21	12	Palet et al., 2010
		B FIG 7	1	-	**E1b1b (100%)**	**13**	**14**	30	24	9	11	13	12 – 14	14	10	10	20	16	18	21	12	Palet et al., 2010
		B FIG 8	2	-	**E1b1b (99.9%)**	**13**	**14**	30	24	9	11	13	13 – 14	14	10	11	20	15	18	21	12	Palet et al., 2010
		B FIG 9	2	-	**E1b1b (77.4%)**	**13**	**14**	30	24	10	11	12	13 – 14	14	10	10	20	16	19	21	12	Palet et al., 2010
		B FIG 10	2	-	**E1b1b (97.5%)**	**13**	**14**	30	24	10	11	13	13 – 14	14	10	11	20	15	18	21	12	Palet et al., 2010
		B FIG 11	2	-	**E1b1b (99.6%)**	**13**	**14**	30	24	10	11	13	13 – 14	14	10	11	20	16	18	21	12	Palet et al., 2010
		B FIG 12	1	-	**E1b1b (97.9%)**	**13**	**14**	30	24	10	11	13	13 – 14	14	10	11	20	16	19	20	12	Palet et al., 2010
		B FIG 13	1	-	**E1b1b (100%)**	**13**	**14**	30	24	10	11	13	13 – 14	14	11	12	20	16	19	21	12	Palet et al., 2010
		B FIG 14	1	-	**J1 (91.8%)**	**13**	**14**	30	24	10	11	13	13 – 15	14	10	11	20	15	18	20	12	Palet et al., 2010
		B FIG 15	1	-	**J1 (57.8%)**	**13**	**14**	30	24	10	11	13	13 – 15	14	10	11	20	15	18	21	12	Palet et al., 2010
		B FIG 16	1	-	**I2a (xI2a1) (61.1%)**	**13**	**14**	30	24	12	11	13	13 – 14	15	10	11	20	15	18	21	12	Palet et al., 2010
		B FIG 17	5	-	**J2a4b (96.4%)**	**14**	**12**	29	23	10	11	12	13 – 16	15	9	11	20	15	16	21	11	Palet et al., 2010
		B FIG 18	1	-	**R1b (100%)**	**14**	**13**	29	23	10	14	13	11 – 14	15	12	11	19	17	19	23	12	Palet et al., 2010
		B FIG 19	1	-	**R1b (100%)**	**14**	**13**	29	23	10	14	13	11 – 14	15	12	12	19	17	18	23	12	Palet et al., 2010
		B FIG 20	1	-	**J1 (100%)**	**14**	**13**	29	23	11	11	12	13 – 19	14	10	11	20	14	18.2	21	11	Palet et al., 2010
		B FIG 21	1	-	**R1b (100%)**	**14**	**13**	29	23	11	14	13	11 – 14	14	12	12	19	17	19	23	12	Palet et al., 2010
		B FIG 22	1	-	**R1b (100%)**	**14**	**13**	29	23	11	14	13	11 – 14	15	12	12	18	16	18	23	12	Palet et al., 2010
		B FIG 23	3	-	**R1b (100%)**	**14**	**13**	29	23	11	14	13	11 – 14	15	12	12	19	17	18	23	12	Palet et al., 2010
		B FIG 24	3	-	**R1b (100%)**	**14**	**13**	29	23	11	14	13	11 – 14	15	12	12	19	17	19	23	12	Palet et al., 2010
		B FIG 25	1	-	**R1b (100%)**	**14**	**13**	29	24	11	14	13	11 – 14	15	12	12	19	17	18	23	12	Palet et al., 2010
		B FIG 26	2	-	**J1 (100%)**	**14**	**13**	30	23	11	11	12	13 – 19	14	10	11	20	14	18.2	21	11	Palet et al., 2010
		B FIG 27	1	-	**J1 (99.6%)**	**14**	**13**	30	23	11	11	12	13 – 19	15	10	11	20	14	18.2	21	11	Palet et al., 2010
		B FIG 28	1	-	**J1 (100%)**	**14**	**13**	30	23	12	11	12	13 – 19	14	10	11	20	14	18.2	21	11	Palet et al., 2010
		B FIG 29	1	-	**E1b1b (97.8%)**	**14**	**14**	30	24	9	11	13	14 – 14	14	10	10	20	15	17	22	12	Palet et al., 2010
		B FIG 30	1	-	**E1b1a (98.2%)**	**15**	**12**	28	21	10	12	14	16 – 16	14	11	11	20	15	19	21	11	Palet et al., 2010
		B FIG 31	1	-	**R1b (100%)**	**15**	**13**	29	23	12	14	13	11 – 14	15	12	12	19	17	17	23	12	Palet et al., 2010
		B FIG 32	1	-	**I1 (52.8%)**	**16**	**12**	29	22	9	12	13	15 – 15	16	10	11	19,20	17	16	21	12	Palet et al., 2010
		B FIG 33	1	-	**E1a (98.7%)**	**16**	**12**	30	22	9	12	13	15 – 16	16	10	11	19,20	17	16	21	12	Palet et al., 2010
		B FIG 34	1	-	**E1b1a (100%)**	**16**	**14**	32	21	10	11	13	14 – 17	14	11	12	21	16	16	21	12	Palet et al., 2010
		B FIG 35	1	-	**O3 (58.8%)**	**17**	**12**	30	22	9	13	13	15 – 16	16	10	11	19,20	17	17	21	12	Palet et al., 2010
		B FIG 36	1	-	**E1b1a (100%)**	**17**	**13**	30	21	10	11	12	16 – 18	14	11	12	21	13	16	22	13	Palet et al., 2010
Khénifra	36																					
		KHE 1	1	-	**E1b1b (100%)**	13	12	29	23	10	11	13	17 – 19	14	10	10	20	15	10	21	11	Gainar et al., 2011
		KHE 2	1	-	**E1b1b (100%)**	13	12	29	25	10	11	13	17 – 18	14	10	10	20	15	14	23	11	Gainar et al., 2011
		KHE 3	1	-	**E1b1b (99.9%)**	13	13	29	24	9	11	13	13 – 14	14	10	10	20	15	17	21	12	Gainar et al., 2011
		KHE 4	1	-	**E1b1b (99.9%)**	13	13	29	24	9	11	13	13 – 14	14	10	10	20	15	18	21	12	Gainar et al., 2011
		KHE 5	1	-	**E1b1b (100%)**	13	13	29	24	9	11	13	13 – 14	14	10	10	20	15	19	21	12	Gainar et al., 2011
		KHE 6	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	15	18	21	12	Gainar et al., 2011
		KHE 7	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	15	19	21	12	Gainar et al., 2011
		KHE 8	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	17	21	12	Gainar et al., 2011
		KHE 9	2	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	18	21	12	Gainar et al., 2011
		KHE 10	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	18	22	12	Gainar et al., 2011
		KHE 11	2	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	19	21	12	Gainar et al., 2011
		KHE 12	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	18	18	21	12	Gainar et al., 2011
		KHE 13	1	-	**E1b1b (99.7%)**	13	14	30	24	9	11	13	13 – 14	14	10	11	20	14	18	21	12	Gainar et al., 2011
		KHE 14	2	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	11	20	15	18	23	12	Gainar et al., 2011
		KHE 15	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	11	20	16	18	22	12	Gainar et al., 2011
		KHE 16	1	-	**E1b1b (99.6%)**	13	14	30	24	9	11	13	13 – 15	14	10	10	20	16	17	21	12	Gainar et al., 2011
		KHE 17	2	-	**E1b1b (98.4%)**	13	14	30	24	9	11	13	13 – 15	14	10	10	20	16	19	20	12	Gainar et al., 2011
		KHE 18	1	-	**E1b1b (99.9%)**	13	14	30	24	9	11	13	13 – 15	14	10	10	20	17	17	22	11	Gainar et al., 2011
		KHE 19	1	-	**E1b1b (99.9%)**	13	14	30	24	10	11	13	13 – 14	14	10	10	20	16	17	21	12	Gainar et al., 2011
		KHE 20	1	-	**E1b1b (100%)**	13	14	31	24	9	11	13	13 – 14	14	10	10	20	15	18	21	12	Gainar et al., 2011
		KHE 21	1	-	**E1b1b (100%)**	13	15	31	24	9	11	13	13 – 14	14	10	10	20	15	18	21	11	Gainar et al., 2011
		KHE 22	1	-	**E1b1b (99.6%)**	13	15	31	24	10	11	13	13 – 14	14	10	11	20	16	17	21	12	Gainar et al., 2011
		KHE 23	1	-	**J2a4b (47.2%)**	14	12	29	22	11	11	13	14 – 15	14	8	11	20	15	17	22	11	Gainar et al., 2011
		KHE 24	1	-	**G2a (100%)**	15	12	28	21	10	11	13	13 – 15	15	10	12	21	15	18	21	12	Gainar et al., 2011
		KHE 25	1	-	**G2a (100%)**	15	12	28	22	10	11	13	14 – 15	15	10	11	22	15	17	21	13	Gainar et al., 2011
		KHE 26	1	-	**G2a (97.7%)**	15	12	29	22	10	11	14	14 – 16	17	10	11	20	15	15	21	11	Gainar et al., 2011
		KHE 27	1	-	**E1b1a (100%)**	15	12	31	21	11	11	14	15 – 17	14	11	13	22	15	16	22	11	Gainar et al., 2011
		KHE 28	1	-	**E1b1a (100%)**	15	13	31	21	11	11	14	15 – 17	14	11	13	22	15	16	22	11	Gainar et al., 2011
		KHE 29	3	-	**E1b1a (99.9%)**	16	12	29	21	10	11	14	15 – 16	14	11	12	22	16	17	21	11	Gainar et al., 2011
		KHE 30	1	-	**E1b1a (100%)**	16	14	32	21	10	11	13	16 – 17	14	11	11	21	15	18	22	12	Gainar et al., 2011
Azgour Valley	33																					
		AZG 1	1	E3b2-M81	**E1b1b (99.9%)**	12	13	30	24	9	11	13	13 – 14	14	10	10	21	16	18	21	12	Alvarez et al., 2009
		AZG 2	1	E3b2-M81	**E1b1b (99.8%)**	13	12	29	24	9	11	13	13 – 14	14	9	10	20	16	18	21	12	Alvarez et al., 2009
		AZG 3	1	E3b2-M81	**E1b1b (99.9%)**	13	13	29	23	9	11	13	14 – 14	14	10	10	20	17	19	21	12	Alvarez et al., 2009
		AZG 4	1	E3b2-M81	**E1b1b (100%)**	13	13	29	24	9	11	13	13 – 14	14	10	12	20	15	18	21	12	Alvarez et al., 2009
		AZG 5	1	E3b(xE3b3, E3b1)-M215	**E1b1b (100%)**	13	13	30	22	9	11	13	16 – 16	14	10	13	19	15	14	23	11	Alvarez et al., 2009
		AZG 6	1	E3b2-M81	**E1b1b (99.8%)**	13	13	30	24	10	11	13	13 – 14	14	10	11	20	16	18	21	12	Alvarez et al., 2009
		AZG 7	1	E3b(xE3b3, E3b1)-M215	**E1b1b (100%)**	13	13	30	25	11	11	13	16 – 16	14	10	12	19	16	17	23	11	Alvarez et al., 2009
		AZG 8	1	E3b2-M81	**I2a (xI2a1) (57.5%)**	13	14	27	24	9	11	13	13 – 15	14	10	11	20	14	17	21	11	Alvarez et al., 2009
		AZG 9	1	E3b2-M81	**E1b1b (91.8%)**	13	14	28	24	9	11	13	13 – 15	14	10	11	20	15	18	22	12	Alvarez et al., 2009
		AZG 10	1	E3b2-M81	**E1b1b (99.8%)**	13	14	30	23	9	11	13	13 – 14	14	10	10	20	16	18	21	12	Alvarez et al., 2009
		AZG 11	1	E3b2-M81	**E1b1b (98.7%)**	13	14	30	23	9	11	13	14 – 14	14	10	10	20	14	17	21	12	Alvarez et al., 2009
		AZG 12	1	E3b2-M81	**E1b1b (99.9%)**	13	14	30	23	9	11	13	14 – 14	14	10	10	20	16	19	21	12	Alvarez et al., 2009
		AZG 13	1	E3b2-M81	**E1b1b (99.8%)**	13	14	30	24	9	11	13	13 – 13	14	10	9	20	15	18	21	12	Alvarez et al., 2009
		AZG 14	1	E3b2-M81	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 13	14	10	10	20	16	18	21	12	Alvarez et al., 2009
		AZG 15	1	E3b2-M81	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	13	11	10	20	16	18	21	12	Alvarez et al., 2009
		AZG 16	1	E3b2-M81	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	19	15	16	21	13	Alvarez et al., 2009
		AZG 17	1	E3b2-M81	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	17	21	12	Alvarez et al., 2009
		AZG 18	1	E3b2-M81	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	18	20	12	Alvarez et al., 2009
		AZG 19	3	E3b2-M81	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	18	21	12	Alvarez et al., 2009
		AZG 20	1	E3b2-M81	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	19	21	12	Alvarez et al., 2009
		AZG 21	1	E3b2-M81	**E1b1b (99.7%)**	13	14	30	24	9	11	13	13 – 15	14	10	10	20	16	18	21	13	Alvarez et al., 2009
		AZG 22	2	E3b2-M81	**E1b1b (100%)**	13	14	30	24	9	11	13	14 – 14	14	10	10	20	16	19	20	12	Alvarez et al., 2009
		AZG 23	1	E3b2-M81	**E1b1b (99.6%)**	13	14	30	24	9	11	14	13 – 15	14	10	10	20	16	17	21	12	Alvarez et al., 2009
		AZG 24	1	E3b2-M81	**E1b1b (100%)**	13	14	31	24	9	11	13	13 – 14	14	10	10	20	16	18	20	12	Alvarez et al., 2009
		AZG 25	1	E3b2-M81	**E1b1b (100%)**	13	14	31	24	10	11	13	13 – 14	14	10	10	20	16	19	21	12	Alvarez et al., 2009
		AZG 26	1	A(xBT)-M94	**J1 (100%)**	14	13	30	23	11	11	12	13 – 19	14	10	11	20	14	18	21	11	Alvarez et al., 2009
		AZG 27	1	E3b2-M81	**E1b1b (75.8%)**	14	14	30	23	9	11	13	13 – 14	14	10	10	20	16	18	21	12	Alvarez et al., 2009
		AZG 28	1	E3b2-M81	**I2a (xI2a1) (97.7%)**	14	15	30	23	11	11	15	13 – 15	15	10	10	20	18	20	21	13	Alvarez et al., 2009
		AZG 29	1	E3b1-M78	**E1b1b (99.9%)**	15	13	31	24	10	11	13	18 – 18	14	10	11	20	15	14	20	12	Alvarez et al., 2009
		AZG 30	1	E3a-M2	**E1b1a (100%)**	17	14	31	21	10	11	13	17 – 18	14	11	11	22	15	18	21	11	Alvarez et al., 2009
Arabs	**223**																					
Rabat	130																					
		A RAB 1	1	-	**E1b1b (99.9%)**	11	9	28	19	9	11	12	13 – 14	14	8	9	20,21	17	16	19	8	Aboukhalid et al., 2010
		A RAB 2	1	-	**E1b1b (100%)**	11	14	30	24	9	11	13	14 – 14	14	10	10	20	15	17	22	12	Aboukhalid et al., 2010
		A RAB 3	1	-	**E1b1b (100%)**	11	14	30	24	9	11	13	14 – 14	14	10	11	20	15	17	22	12	Aboukhalid et al., 2010
		A RAB 4	1	-	**E1b1b (100%)**	11	14	30	24	9	11	13	14 – 15	14	10	11	20	15	17	22	12	Aboukhalid et al., 2010
		A RAB 5	1	-	**E1b1b (100%)**	13	10	30	23	10	11	13	17 – 18	14	10	10	20	16	0	21	8	Aboukhalid et al., 2010
		A RAB 6	1	-	**E1b1b (99.6%)**	13	12	28	24	9	11	13	13 – 14	14	11	11	19	16	17	21	12	Aboukhalid et al., 2010
		A RAB 7	1	-	**E1b1b (99.6%)**	13	12	29	22	10	11	8	18 – 18	14	10	11	20	18	19	21	10	Aboukhalid et al., 2010
		A RAB 8	1	-	**E1b1b (99.5%)**	13	12	29	22	10	11	10	17 – 18	14	10	10	20	15	14	21	11	Aboukhalid et al., 2010
		A RAB 9	1	-	**E1b1b (100%)**	13	12	29	22	10	11	13	16 – 17	14	10	10	20	15	14	21	11	Aboukhalid et al., 2010
		A RAB 10	1	-	**E1b1b (100%)**	13	12	29	22	10	11	13	17 – 18	14	10	11	21	15	14	21	11	Aboukhalid et al., 2010
		A RAB 11	1	-	**E1b1b (100%)**	13	12	29	22	10	11	13	17 – 18	14	10	10	21	15	14	21	11	Aboukhalid et al., 2010
		A RAB 12	1	-	**E1b1b (100%)**	13	12	29	23	10	11	8	17 – 18	14	10	10	20	18	19	21	12	Aboukhalid et al., 2010
		A RAB 13	1	-	**E1b1b (100%)**	13	12	29	23	10	11	10	17 – 18	14	10	10	20	15	14	21	11	Aboukhalid et al., 2010
		A RAB 14	1	-	**E1b1b (100%)**	13	12	29	23	10	11	10	17 – 19	14	10	10	20	15	14	21	11	Aboukhalid et al., 2010
		A RAB 15	1	-	**E1b1b (100%)**	13	12	29	23	10	11	13	17 – 17	14	10	10	20	15	14	22	11	Aboukhalid et al., 2010
		A RAB 16	1	-	**E1b1b (98.8%)**	13	13	29	24	9	11	13	13 – 14	14	10	11	20	15	19	20	12	Aboukhalid et al., 2010
		A RAB 17	1	-	**E1b1b (100%)**	13	13	29	24	9	11	13	13 – 14	14	10	10	20	15	19	21	12	Aboukhalid et al., 2010
		A RAB 18	1	-	**E1b1b (100%)**	13	13	29	24	9	11	13	13 – 14	14	10	10	20	16	19	21	12	Aboukhalid et al., 2010
		A RAB 19	1	-	**E1b1b (100%)**	13	13	29	24	9	11	13	13 – 14	14	10	10	20	17	18	21	12	Aboukhalid et al., 2010
		A RAB 20	1	-	**E1b1b (100%)**	13	13	30	22	9	10	8	17 – 14	14	10	10	20	14	17	21	12	Aboukhalid et al., 2010
		A RAB 21	1	-	**E1b1b (100%)**	13	13	30	23	9	11	13	17 – 14	14	10	10	20	14	17	21	12	Aboukhalid et al., 2010
		A RAB 22	1	-	**J1 (97.3%)**	13	13	30	23	11	10	12	13 – 14	14	10	11	19	14	18	21	12	Aboukhalid et al., 2010
		A RAB 23	1	-	**E1b1b (100%)**	13	13	30	24	9	11	13	13 – 14	14	10	10	20	15	18	22	12	Aboukhalid et al., 2010
		A RAB 24	1	-	**E1b1b (54.8%)**	13	14	30	23	9	11	8	13 – 14	14	10	10	21	0	17	21	10	Aboukhalid et al., 2010
		A RAB 25	1	-	**J2a4 (x bh) (57%)**	13	14	30	23	9	11	12	14 – 14	15	10	10	21	16	18	22	12	Aboukhalid et al., 2010
		A RAB 26	1	-	**E1b1b (96.1%)**	13	14	30	23	9	11	13	13 – 14	14	10	11	19	15	18	21	12	Aboukhalid et al., 2010
		A RAB 27	1	-	**E1b1b (93.8%)**	13	14	30	23	9	11	13	13 – 15	14	10	9	20	16	18	21	12	Aboukhalid et al., 2010
		A RAB 28	1	-	**E1b1b (99.3%)**	13	14	30	23	9	11	13	14 – 14	14	10	10	20	15	17	21	12	Aboukhalid et al., 2010
		A RAB 29	1	-	**E1b1b (99.9%)**	13	14	30	23	9	11	13	14 – 14	14	10	10	20	16	19	21	12	Aboukhalid et al., 2010
		A RAB 30	1	-	**E1b1b (100%)**	13	14	30	24	9	11	8	13 – 14	14	10	10	21	0	16	22	10	Aboukhalid et al., 2010
		A RAB 31	1	-	**E1b1b (99.2%)**	13	14	30	24	9	11	12	13 – 14	14	10	11	20	16	19	22	12	Aboukhalid et al., 2010
		A RAB 32	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 13	14	10	10	20	16	17	22	12	Aboukhalid et al., 2010
		A RAB 33	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	19	15	17	21	12	Aboukhalid et al., 2010
		A RAB 34	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	19	16	18	21	11	Aboukhalid et al., 2010
		A RAB 35	1	-	**E1b1b (99.9%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	14	18	21	11	Aboukhalid et al., 2010
		A RAB 36	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	15	16	21	12	Aboukhalid et al., 2010
		A RAB 37	1	-	**E1b1b (99.9%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	15	17	21	12	Aboukhalid et al., 2010
		A RAB 38	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	15	18	21	12	Aboukhalid et al., 2010
		A RAB 39	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	15,16	18	21	12	Aboukhalid et al., 2010
		A RAB 40	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	17	21	12	Aboukhalid et al., 2010

			A RAB 41	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	11	20	16	18	22	12	Aboukhalid et al., 2010
			A RAB 42	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	18	23	12	Aboukhalid et al., 2010
			A RAB 43	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	19	21	12	Aboukhalid et al., 2010
			A RAB 44	1	-	**E1b1b (97.9%)**	13	14	30	24	9	11	13	13 – 15	14	10	11	20	14	18	22	12	Aboukhalid et al., 2010
			A RAB 45	1	-	**E1b1b (98.5%)**	13	14	30	24	9	11	13	13 – 15	14	10	10	21	16	18	21	12	Aboukhalid et al., 2010
			A RAB 46	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 16	14	10	10	20	16	17	21	12	Aboukhalid et al., 2010
			A RAB 47	1	-	**E1b1b (89.7%)**	13	14	30	24	9	12	14	13 – 14	14	11	10	19	16	18	22	10	Aboukhalid et al., 2010
			A RAB 48	1	-	**E1b1b (96%)**	13	14	30	24	10	11	13	13 – 14	14	10	11	20	16	17	20	12	Aboukhalid et al., 2010
			A RAB 49	1	-	**E1b1b (99%)**	13	14	30	25	9	11	8	13 – 14	14	10	10	20	0	18	21	12	Aboukhalid et al., 2010
			A RAB 50	1	-	**E1b1b (100%)**	13	14	30	25	9	11	13	13 – 14	14	10	10	20	16	18	21	12	Aboukhalid et al., 2010
			A RAB 51	1	-	**E1b1b (100%)**	13	14	30	25	9	11	14	13 – 14	14	10	11	20	16	19	21	12	Aboukhalid et al., 2010
			A RAB 52	1	-	**E1b1b (100%)**	13	14	31	23	9	11	13	13 – 14	14	10	10	20	15	16	21	11	Aboukhalid et al., 2010
			A RAB 53	1	-	**E1b1b (100%)**	13	14	31	23	9	11	13	13 – 14	14	10	10	20	15	19	22	12	Aboukhalid et al., 2010
			A RAB 54	1	-	**E1b1b (100%)**	13	15	31	24	9	11	13	13 – 14	14	10	9	20	15	18	21	12	Aboukhalid et al., 2010
			A RAB 55	1	-	**E1b1b (100%)**	13	15	31	24	9	11	13	13 – 14	14	10	10	20	15	18	21	12	Aboukhalid et al., 2010
			A RAB 56	1	-	**E1b1b (93.2%)**	14	10	29	23	9	11	8	13 – 18	14	10	11	20	0	16	21	8	Aboukhalid et al., 2010
			A RAB 57	1	-	**G2a (95.2%)**	14	12	28	22	10	11	13	14 – 15	15	10	11	21	15	17	21	12	Aboukhalid et al., 2010
			A RAB 58	1	-	**H (58.6%)**	14	12	28	23	11	11	13	15 – 16	14	8	12	20	15	17	21	12	Aboukhalid et al., 2010
			A RAB 59	1	-	**J2a4 (x bh) (66.1%)**	14	12	28	26	11	11	12	14 – 19	14	11	11	20	16	17	24	11	Aboukhalid et al., 2010
			A RAB 60	1	-	**E1b1b (87.9%)**	14	12	30	23	10	11	12	16 – 19	14	10	10	20	15	15	22	11	Aboukhalid et al., 2010
			A RAB 61	1	-	**J2a4 (x bh) (73.3%)**	14	12	32	24	10	11	12	14 – 16	15	9	13	19	15	16	20	12	Aboukhalid et al., 2010
			A RAB 62	1	-	**J1 (98.9%)**	14	13	29	23	10	11	8	13 – 20	14	10	11	20	0	19	21	10	Aboukhalid et al., 2010
			A RAB 63	1	-	**J1 (99.1%)**	14	13	29	23	11	10	12	13 – 14	14	10	11	19	14	18	21	11	Aboukhalid et al., 2010
			A RAB 64	1	-	**J1 (99.4%)**	14	13	29	23	11	11	8	13 – 20	14	10	11	21	0	20	21	10	Aboukhalid et al., 2010
			A RAB 65	1	-	**J1 (100%)**	14	13	29	23	11	11	12	13 – 19	14	10	12	20	14	18	21	11	Aboukhalid et al., 2010
			A RAB 66	1	-	**J1 (100%)**	14	13	29	23	11	11	12	13 – 19	14	10	11	20	14	18.2	21	11	Aboukhalid et al., 2010
			A RAB 67	1	-	**J1 (96.6%)**	14	13	29	23	11	11	13	13 – 14	14	10	11	20	14	18	21	11	Aboukhalid et al., 2010
			A RAB 68	1	-	**C3 (52.9%)**	14	13	29	24	9	11	13	12 – 14	14	10	10	20	16	18	21	12	Aboukhalid et al., 2010
			A RAB 69	1	-	**R1b (100%)**	14	13	29	24	10	13	13	12 – 14	15	12	12	19	17	17	23	12	Aboukhalid et al., 2010
			A RAB 70	1	-	**C3 (55.1%)**	14	13	30	22	8	11	13	12 – 12	14	10	13	22	15	16	21	12	Aboukhalid et al., 2010
			A RAB 71	1	-	**J2a4b (51.6%)**	14	13	30	22	9	11	13	12 – 16	14	10	12	22	15	14	21,22	13	Aboukhalid et al., 2010
			A RAB 72	1	-	**J1 (100%)**	14	13	30	23	10	11	12	13 – 20	14	10	11	20	14	19	21	11	Aboukhalid et al., 2010
			A RAB 73	1	-	**J1 (99.6%)**	14	13	30	23	11	11	8	13 – 20	14	10	11	20	0	18	21	10	Aboukhalid et al., 2010
			A RAB 74	1	-	**J1 (99.6%)**	14	13	30	23	11	11	8	13 – 19	14	10	11	20	0	19	21	10	Aboukhalid et al., 2010
			A RAB 75	1	-	**J1 (100%)**	14	13	30	23	11	11	12	13 – 20	14	10	11	20	13	19	21	11	Aboukhalid et al., 2010
			A RAB 76	1	-	**J1 (100%)**	14	13	30	23	11	11	12	13 – 17	14	10	11	20	14	18.2	20	12	Aboukhalid et al., 2010
			A RAB 77	1	-	**J1 (100%)**	14	13	30	23	11	11	12	13 – 18	14	10	10	20	14	18.2	20	11	Aboukhalid et al., 2010
			A RAB 78	1	-	**J1 (99.9%)**	14	13	30	23	11	11	12	13 – 18	14	10	11	20	15	18	21	11	Aboukhalid et al., 2010
			A RAB 79	1	-	**J1 (100%)**	14	13	30	23	11	11	12	13 – 19	14	10	12	20	14	18	21	11	Aboukhalid et al., 2010
			A RAB 80	1	-	**J1 (100%)**	14	13	30	23	11	11	12	13 – 19	14	10	12	20	14	19	21	11	Aboukhalid et al., 2010
			A RAB 81	1	-	**J1 (100%)**	14	13	30	23	11	11	12	18 – 19	14	10	11	20	14	18	21	11	Aboukhalid et al., 2010
			A RAB 82	1	-	**J1 (93.4%)**	14	13	30	23	11	11	12	13 – 18	14	10	11	20	14	19	22	11	Aboukhalid et al., 2010
			A RAB 83	1	-	**J1 (100%)**	14	13	30	23	12	11	12	13 – 19	14	10	11	20	13	19	21	11	Aboukhalid et al., 2010
			A RAB 84	1	-	**J1 (100%)**	14	13	30	23	12	11	12	13 – 19	14	10	11	20	14	18	21	11	Aboukhalid et al., 2010
			A RAB 85	1	-	**J1 (99.9%)**	14	13	30	24	11	11	12	13 – 18	14	10	11	20	14	19	21	11	Aboukhalid et al., 2010
			A RAB 86	1	-	**R1b (100%)**	14	13	30	24	11	13	13	12 – 15	15	12	11	19	16	17	23	13	Aboukhalid et al., 2010
			A RAB 87	1	-	**J1 (79.5%)**	14	13	31	22	9	11	13	11 – 15	14	10	13	23	15	19	21	11	Aboukhalid et al., 2010
			A RAB 88	1	-	**J1 (100%)**	14	13	31	23	11	11	12	13 – 18	14	10	12	20	14	18.2	21	11	Aboukhalid et al., 2010
			A RAB 89	1	-	**E1b1b (54.4%)**	14	13	32	22	9	11	8	13 – 15	14	10	15	23	0	14	22	10	Aboukhalid et al., 2010
			A RAB 90	1	-	**J1 (36.8%)**	14	14	29	24	9	11	13	13 – 15	14	10	10	20	15	18	21	12	Aboukhalid et al., 2010
			A RAB 91	1	-	**E1b1b (72.6%)**	14	14	30	23	9	11	13	13 – 14	13	10	10	20	16	18	21	13	Aboukhalid et al., 2010
			A RAB 92	1	-	**E1b1b (75.8%)**	14	14	30	23	9	11	13	13 – 14	14	10	10	20	16	18	21	13	Aboukhalid et al., 2010
			A RAB 93	1	-	**O3 (97.6%)**	14	14	30	23	11	10	8	13 – 19	14	10	12	20	0	19	21	10	Aboukhalid et al., 2010
			A RAB 94	1	-	**E1b1b (98.5%)**	14	14	30	24	9	11	13	13 – 13	14	10	10	20	15	15	23	12	Aboukhalid et al., 2010
			A RAB 95	1	-	**E1b1b (95.4%)**	14	14	30	24	9	11	13	13 – 16	14	10	10	20	16	18	21	12	Aboukhalid et al., 2010
			A RAB 96	1	-	**T (100%)**	14	14	30	24	10	13	13	14 – 17	14	9	12	19	16	15	20	11	Aboukhalid et al., 2010
			A RAB 97	1	-	**J1 (100%)**	14	14	31	23	11	11	12	13 – 19	14	10	12	20	14	18.2	21	11	Aboukhalid et al., 2010
			A RAB 98	1	-	**J1 (99.2%)**	14	14	31	23	12	11	8	12 – 19	14	10	11	20	0	19	20	10	Aboukhalid et al., 2010
			A RAB 99	1	-	**E1b1b (100%)**	14	14	31	24	10	11	13	17 – 19	14	10	12	19	15	14	22	13	Aboukhalid et al., 2010
			A RAB 100	1	-	**R1b (100%)**	14	14	31	24	11	13	14	11 – 14	15	12	13	19	15	14	23	11	Aboukhalid et al., 2010
			A RAB 101	1	-	**G2a (99.9%)**	15	12	28	22	10	11	13	14 – 15	15	10	11	21	15	17	21	12	Aboukhalid et al., 2010
			A RAB 102	1	-	**G2a (100%)**	15	12	29	21	10	11	13	14 – 15	16	10	11	22	15	17	21	12	Aboukhalid et al., 2010
			A RAB 103	1	-	**E1a (92.3%)**	15	12	29	22	10	11	13	14 – 15	17	10	13	20	16	15	21	11	Aboukhalid et al., 2010
			A RAB 104	2	-	**G2a (100%)**	15	12	29	22	10	11	14	12 – 16	16	10	11	21	17	17	21	12	Aboukhalid et al., 2010
			A RAB 105	1	-	**G2a (99.9%)**	15	12	29	23	10	11	13	12 – 16	16	11	12	21	17	17	21	12	Aboukhalid et al., 2010
			A RAB 106	1	-	**O3 (90.4%)**	15	12	29	23	10	14	8	12 – 14	14	10	12	21	17	19	0	10	Aboukhalid et al., 2010
			A RAB 107	2	-	**G2a (100%)**	15	12	30	22	10	11	14	14 – 14	13	10	12	21	15	16	20	11	Aboukhalid et al., 2010
			A RAB 108	1	-	**E1a (69.5%)**	15	12	31	22	11	11	13	15 – 16	15	8	11	21	15	16	21	12	Aboukhalid et al., 2010
			A RAB 109	1	-	**I2a1 (99.8%)**	15	13	29	21	9	11	13	11 – 12	14	11	12	21	14	16	20	11	Aboukhalid et al., 2010
			A RAB 110	1	-	**J2a4 (x bh) (99.2%)**	15	13	29	23	10	11	12	14 – 19	15	9	12	20	15	15	23	10	Aboukhalid et al., 2010
			A RAB 111	1	-	**J1 (72.5%)**	15	13	29	23	10	11	13	13 – 13	14	12	11	20	14	17	21	12	Aboukhalid et al., 2010
			A RAB 112	1	-	**J2b (49.9%)**	15	13	29	24	10	10	8	16 – 18	14	9	12	19	0	17	21	10	Aboukhalid et al., 2010
			A RAB 113	1	-	**I2a1 (90.8%)**	15	13	30	21	10	11	13	11 – 12	14	10	12	21	14	16	20	11	Aboukhalid et al., 2010
			A RAB 114	1	-	**J1 (99.7%)**	15	13	30	23	10	11	12	13 – 13	14	10	11	20	14	0	21	11	Aboukhalid et al., 2010
			A RAB 115	1	-	**E1b1a (100%)**	15	13	31	21	10	11	14	14 – 16	13	11	12	19	15	19	24	11	Aboukhalid et al., 2010
			A RAB 116	1	-	**I2a (xI2a1) (98.9%)**	15	13	31	25	11	11	13	11 – 11	14	10	11	20	14	18	21	11	Aboukhalid et al., 2010
			A RAB 117	1	-	**J1 (92%)**	15	14	29	24	10	11	12	16 – 16	14	11	13	21	14	17	22	11	Aboukhalid et al., 2010
			A RAB 118	1	-	**C3 (80.1%)**	15	14	30	24	9	11	13	13 – 14	14	10	10	20	15	17	20	12	Aboukhalid et al., 2010
			A RAB 119	1	-	**G2a (95.4%)**	16	11	28	23	10	11	13	14 – 17	17	10	9	19,20	15	15	21	11	Aboukhalid et al., 2010
			A RAB 120	1	-	**E1b1a (100%)**	16	13	30	21	10	11	15	17 – 18	13	11	9	21	15	15	21	11	Aboukhalid et al., 2010
			A RAB 121	1	-	**I2a (xI2a1) (97.4%)**	16	13	31	23	11	11	13	16 – 16	15	10	11	21	16	17	22	11	Aboukhalid et al., 2010
			A RAB 122	1	-	**G2a (71.4%)**	17	12	29	22	10	11	13	14 – 15	17	10	8	19	14	15	20	11	Aboukhalid et al., 2010
			A RAB 123	1	-	**I2a (xI2a1) (72.4%)**	17	13	29	23	11	13	13	14 – 15	14	12	13	19	15	16	23	11	Aboukhalid et al., 2010
			A RAB 124	1	-	**E1b1a (100%)**	17	13	31	21	11	11	14	16 – 16	14	11	11	21	16	17	21	11	Aboukhalid et al., 2010
			A RAB 125	1	-	**E1b1a (100%)**	17	13	32	21	11	11	14	16 – 16	14	11	11	19	16	17	21	11	Aboukhalid et al., 2010
			A RAB 126	1	-	**O3 (93.5%)**	17	14	29	21	10	10	8	17 – 19	14	10	11	20	14	18	21	13	Aboukhalid et al., 2010
			A RAB 127	1	-	**G2a (77.2%)**	18	12	29	22	10	11	13	14 – 14	17	10	12	20	13	15	20	11	Aboukhalid et al., 2010
			A RAB 128	1	-	**E1b1a (100%)**	18	13	30	21	13	11	17	15 – 16	14	11	10	21	15	17	21	12	Aboukhalid et al., 2010
	Figuig Oasis	44																					
			A FIG 1	1	-	**E1b1b (99.5%)**	13	13	29	24	10	11	13	13 – 14	14	10	11	20	16	18	21	12	Palet et al., 2010
			A FIG 2	1	-	**J1 (93.7%)**	13	14	30	23	10	11	12	13 – 14	14	10	11	19	16	18	21	12	Palet et al., 2010
			A FIG 3	3	-	**J1 (94.5%)**	13	14	30	23	10	11	12	13 – 14	14	10	11	19	16	19	21	12	Palet et al., 2010
			A FIG 4	1	-	**J1 (89.5%)**	13	14	30	23	10	11	12	13 – 14	14	10	12	20	16	19	21	12	Palet et al., 2010
			A FIG 5	1	-	**E1b1b (89.6%)**	13	14	30	23	10	11	13	13 – 14	14	10	11	20	16	18	21	12	Palet et al., 2010
			A FIG 6	2	-	**E1b1b (99.6%)**	13	14	30	24	10	11	13	13 – 14	14	10	11	20	16	18	21	12	Palet et al., 2010
			A FIG 7	2	-	**E1b1b (99.9%)**	13	14	30	24	10	11	13	13 – 14	14	10	11	20	16	18	22	12	Palet et al., 2010
			A FIG 8	1	-	**E1b1b (99.7%)**	13	14	30	24	10	11	13	13 – 14	14	10	11	20	16	19	21	12	Palet et al., 2010
			A FIG 9	1	-	**E1b1b (99.9%)**	13	14	30	24	10	11	13	13 – 14	14	10	11	20	17	18	22	12	Palet et al., 2010
			A FIG 10	1	-	**J1 (100%)**	14	13	29	23	11	11	12	13 – 19	14	10	11	20	14	18.2	20	11	Palet et al., 2010
			A FIG 11	2	-	**J1 (100%)**	14	13	30	23	10	11	12	13 – 19	14	10	11	20	14	18.2	21	11	Palet et al., 2010
			A FIG 12	1	-	**J1 (100%)**	14	13	30	23	10	11	12	13 – 19	14	10	11	20	14	18.2	21	12	Palet et al., 2010
			A FIG 13	2	-	**J1 (100%)**	14	13	30	23	10	11	12	13 – 19	14	10	11	20	14	19.2	21	11	Palet et al., 2010
			A FIG 14	3	-	**J1 (100%)**	14	13	30	23	10	11	12	13 – 19	14	10	12	20	14	18.2	21	11	Palet et al., 2010
			A FIG 15	1	-	**J1 (100%)**	14	13	30	23	11	11	12	13 – 19	14	10	11	20	14	18.2	21	11	Palet et al., 2010
			A FIG 16	1	-	**J1 (100%)**	14	13	30	23	11	11	12	14 – 19	14	10	11	20	14	18.2	21	11	Palet et al., 2010
			A FIG 17	4	-	**J1 (68.2%)**	14	13	30	23	11	11	12	19 – 19	14	10	11	20	14	18.2	21	11	Palet et al., 2010
			A FIG 18	15	-	**R1a (100%)**	15	13	30	25	10	11	13	11 – 14	14	11	11	20	15	15	24	12	Palet et al., 2010
			A FIG 19	1	-	**R1a (100%)**	15	13	30	25	10	11	13	11 – 14	14	11	11	20	15	15	25	12	Palet et al., 2010
	El Jadida	49																					
			ELJ 1	2	-	**E1b1b (100%)**	11	12	29	22	10	11	13	17 – 18	14	10	11	20	15	14	21	11	Gainar et al., 2011
			ELJ 2	1	-	**E1b1b (100%)**	13	11	30	24	9	11	13	13 – 14	13	10	10	20	16	17	21	12	Gainar et al., 2011
			ELJ 3	1	-	**E1b1b (88.5%)**	13	11	30	24	10	11	13	13 – 15	14	10	11	20	16	17	21	11	Gainar et al., 2011
			ELJ 4	1	-	**E1b1b (100%)**	13	12	29	22	10	11	13	17 – 18	14	10	10	19	15	14	21	11	Gainar et al., 2011
			ELJ 5	1	-	**E1b1b (100%)**	13	12	29	22	10	11	13	17 – 18	14	10	10	20	15	14	21	11	Gainar et al., 2011
			ELJ 6	2	-	**E1b1b (100%)**	13	12	29	22	10	11	13	17 – 18	14	10	10	20	15	15	22	11	Gainar et al., 2011
			ELJ 7	2	-	**E1b1b (100%)**	13	12	29	22	10	11	13	17 – 18	14	10	11	20	15	14	21	11	Gainar et al., 2011
			ELJ 8	1	-	**E1b1b (100%)**	13	12	29	22	10	11	13	17 – 19	14	10	10	20	15	14	21	11	Gainar et al., 2011
			ELJ 9	1	-	**E1b1b (100%)**	13	12	29	22	10	11	13	18 – 18	14	10	11	20	15	14	21	11	Gainar et al., 2011
			ELJ 10	1	-	**E1b1b (100%)**	13	12	29	23	10	11	13	16 – 18	14	10	10	20	15	14	21	11	Gainar et al., 2011
			ELJ 11	1	-	**E1b1b (100%)**	13	12	29	23	10	11	13	17 – 18	14	10	10	20	15	9	21	11	Gainar et al., 2011
			ELJ 12	2	-	**E1b1b (100%)**	13	12	29	23	10	11	13	17 – 18	14	10	10	20	15	14	21	11	Gainar et al., 2011
			ELJ 13	1	-	**E1b1b (100%)**	13	12	29	23	10	11	13	17 – 18	14	10	10	20	16	15	22	11	Gainar et al., 2011
			ELJ 14	1	-	**E1b1b (100%)**	13	12	29	23	10	11	13	17 – 18	14	10	10	22	15	14	21	11	Gainar et al., 2011
			ELJ 15	1	-	**E1b1b (100%)**	13	12	29	23	10	11	14	17 – 18	14	10	10	20	15	14	21	11	Gainar et al., 2011
			ELJ 16	1	-	**J2a4b (68.8%)**	13	13	29	23	10	11	12	13 – 15	16	9	13	18	15	19	22	12	Gainar et al., 2011
			ELJ 17	1	-	**J2a4b (97.5%)**	13	13	30	23	10	11	12	15 – 16	16	9	12	18	15	18	22	12	Gainar et al., 2011
			ELJ 18	1	-	**E1b1b (99.9%)**	13	13	30	23	10	11	13	17 – 18	14	10	14	21	16	17	21	12	Gainar et al., 2011
			ELJ 19	1	-	**E1b1b (100%)**	13	13	31	24	10	11	13	17 – 18	14	10	12	20	17	16	19	12	Gainar et al., 2011
			ELJ 20	1	-	**E1b1b (100%)**	13	13	31	25	10	11	13	17 – 19	14	10	12	20	16	16	19	12	Gainar et al., 2011
			ELJ 21	1	-	**E1b1b (96.8%)**	13	14	30	24	9	11	12	13 – 14	14	10	10	20	16	17	21	12	Gainar et al., 2011
			ELJ 22	1	-	**E1b1b (99.8%)**	13	14	30	24	9	11	13	12 – 13	14	10	10	20	16	18	21	12	Gainar et al., 2011
			ELJ 23	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 13	14	10	10	20	17	18	21	12	Gainar et al., 2011
			ELJ 24	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	17	21	12	Gainar et al., 2011
			ELJ 25	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	18	21	12	Gainar et al., 2011
			ELJ 26	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	17	18	21	12	Gainar et al., 2011
			ELJ 27	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	17	18	22	12	Gainar et al., 2011
			ELJ 28	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	14 – 14	14	10	10	20	16	20	22	12	Gainar et al., 2011
			ELJ 29	1	-	**E1b1b (100%)**	13	14	30	24	9	11	14	13 – 14	14	10	10	20	16	17	21	12	Gainar et al., 2011
			ELJ 30	1	-	**E1b1b (99.9%)**	13	14	30	24	10	11	13	13 – 14	14	10	10	20	16	18	21	12	Gainar et al., 2011
			ELJ 31	1	-	**E1b1b (99.6%)**	13	14	30	24	10	11	13	13 – 14	14	10	11	20	16	18	21	12	Gainar et al., 2011
			ELJ 32	1	-	**E1b1b (100%)**	13	14	31	25	9	11	13	13 – 14	14	10	10	20	16	18	21	11	Gainar et al., 2011
			ELJ 33	1	-	**E1b1b (91.3%)**	13	15	31	25	10	11	13	13 – 14	14	10	11	20	15	17	21	12	Gainar et al., 2011
			ELJ 34	1	-	**J1 (100%)**	14	13	30	23	11	11	12	13 – 18	14	10	12	20	14	18.2	21	11	Gainar et al., 2011
			ELJ 35	1	-	**J1 (95.7%)**	14	13	30	23	11	11	12	13 – 18	15	10	11	19	14	18.2	21	10	Gainar et al., 2011
			ELJ 36	1	-	**J1 (99.9%)**	14	13	30	23	11	11	12	13 – 19	14	10	12	20	14	18.2	22	11	Gainar et al., 2011
			ELJ 37	1	-	**J1 (100%)**	14	13	30	23	11	11	12	14 – 19	14	10	11	20	14	18.2	21	11	Gainar et al., 2011
			ELJ 38	1	-	**J2a4b (66.5%)**	14	14	26	24	11	11	12	14 – 16	15	9	12	19	15	15	20	12	Gainar et al., 2011
			ELJ 39	1	-	**J2a4b (93%)**	14	14	31	24	10	11	12	14 – 16	15	9	12	19	15	16	20	12	Gainar et al., 2011
			ELJ 40	1	-	**J2a4b (91.1%)**	14	14	32	24	10	11	12	14 – 16	15	9	12	19	15	16	20	12	Gainar et al., 2011
			ELJ 41	1	-	**J2a4b (97.4%)**	14	14	32	24	10	11	12	14 – 16	15	9	12	19	15	18	20	12	Gainar et al., 2011
			ELJ 42	1	-	**J2a4b (94.2%)**	14	14	32	24	10	11	12	15 – 16	15	9	11	19	15	16	20	12	Gainar et al., 2011
			ELJ 43	1	-	**E1b1b (94.5%)**	14	15	31	24	9	11	13	13 – 14	14	10	10	20	15	17	22	12	Gainar et al., 2011
			ELJ 44	1	-	**G2a (100%)**	15	12	29	21	10	11	14	13 – 15	16	10	12	21	16	16	21	11	Gainar et al., 2011
			ELJ 45	1	-	**R1b (100%)**	16	13	29	25	11	13	13	11 – 14	15	12	12	17	15	18	23	12	Gainar et al., 2011
Sahrawi		**68**																					
	Rabat	"																					
			S RAB 1	1	-	**E1b1b (99.7%)**	13	12	28	24	9	11	13	13 – 14	14	10	11	20	14	18	21	12	Aboukhalid et al., 2010
			S RAB 2	1	-	**E1b1b (100%)**	13	12	29	22	10	11	14	17 – 18	14	10	10	20	15	14	21	11	Aboukhalid et al., 2010
			S RAB 3	1	-	**E1b1b (100%)**	13	12	29	23	10	11	13	16 – 17	14	10	10	20	15	14	21	11	Aboukhalid et al., 2010
			S RAB 4	2	-	**E1b1b (100%)**	13	12	29	23	10	11	13	17 – 18	14	10	10	20	15	14	21	11	Aboukhalid et al., 2010
			S RAB 5	1	-	**E1b1b (100%)**	13	12	29	23	10	11	13	17 – 18	14	10	10	21	15	14	21	11	Aboukhalid et al., 2010
			S RAB 6	1	-	**E1b1b (100%)**	13	12	29	24	10	11	13	16 – 18	14	10	11	20	15	14	22	11	Aboukhalid et al., 2010
			S RAB 7	1	-	**E1b1b (97.5%)**	13	13	29	23	9	11	13	13 – 14	14	10	10	20	15	17	21	12	Aboukhalid et al., 2010
			S RAB 8	1	-	**E1b1b (99.9%)**	13	13	29	24	8	11	13	13 – 14	14	10	10	20	15	18	21	12	Aboukhalid et al., 2010
			S RAB 9	1	-	**E1b1b (99.9%)**	13	13	29	24	9	11	13	13 – 14	14	10	10	20	15	18	21	12	Aboukhalid et al., 2010
			S RAB 10	1	-	**E1b1b (98.8%)**	13	13	29	24	9	11	13	13 – 14	14	10	11	20	15	19	20	12	Aboukhalid et al., 2010
			S RAB 11	1	-	**E1b1b (100%)**	13	13	30	24	9	11	13	13 – 14	14	10	10	20	16	17	21	11	Aboukhalid et al., 2010
			S RAB 12	1	-	**E1b1b (100%)**	13	13	31	24	10	11	13	15 – 16	14	10	12	20	15	16	22	12	Aboukhalid et al., 2010
			S RAB 13	1	-	**J1 (99.9%)**	13	14	29	23	10	11	12	14 – 16	14	10	12	20	14	18	20	12	Aboukhalid et al., 2010
			S RAB 14	2	-	**E1b1b (87.3%)**	13	14	30	23	9	11	13	13 – 14	14	10	10	20	15	17	20	12	Aboukhalid et al., 2010
			S RAB 15	1	-	**E1b1b (98.2%)**	13	14	30	23	9	11	13	13 – 14	14	10	10	20	15	17	21	12	Aboukhalid et al., 2010
			S RAB 16	1	-	**E1b1b (99.8%)**	13	14	30	23	9	11	13	13 – 14	14	10	10	20	16	17	21	12	Aboukhalid et al., 2010
			S RAB 17	1	-	**E1b1b (98.6%)**	13	14	30	23	9	11	13	13 – 14	14	10	10	21	16	17	21	12	Aboukhalid et al., 2010
			S RAB 18	1	-	**E1b1b (99.9%)**	13	14	30	23	9	11	13	14 – 14	14	10	10	20	16	17	21	12	Aboukhalid et al., 2010
			S RAB 19	1	-	**E1b1b (100%)**	13	14	30	23	9	11	13	14 – 14	14	10	10	20	16	18	22	12	Aboukhalid et al., 2010
			S RAB 20	1	-	**J1 (69.7%)**	13	14	30	24	9	11	12	13 – 14	14	10	10	20	14	18	20	11	Aboukhalid et al., 2010
			S RAB 21	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 13	14	10	10	20	16	18	21	12	Aboukhalid et al., 2010
			S RAB 22	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	19	15	17	21	12	Aboukhalid et al., 2010
			S RAB 23	1	-	**E1b1b (99.7%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	15	18	20	11	Aboukhalid et al., 2010
			S RAB 24	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	15	18	21	12	Aboukhalid et al., 2010
			S RAB 25	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	15	19	21	12	Aboukhalid et al., 2010
			S RAB 26	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	18	21	12	Aboukhalid et al., 2010
			S RAB 27	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	17	18	21	11	Aboukhalid et al., 2010
			S RAB 28	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	17	19	21	12	Aboukhalid et al., 2010
			S RAB 29	1	-	**E1b1b (98%)**	13	14	30	24	9	11	13	13 – 15	14	10	10	20	15	18	21	12	Aboukhalid et al., 2010
			S RAB 30	1	-	**E1b1b (99.6%)**	13	14	30	24	9	11	13	13 – 15	14	10	10	20	16	17	21	13	Aboukhalid et al., 2010
			S RAB 31	1	-	**E1b1b (99.8%)**	13	14	30	24	9	11	13	13 – 15	14	10	10	21	16	18	22	12	Aboukhalid et al., 2010
			S RAB 32	1	-	**E1b1b (98.9%)**	13	14	30	24	9	11	13	13 – 15	14	10	11	20	16	18	21	12	Aboukhalid et al., 2010
			S RAB 33	1	-	**E1b1b (98.1%)**	13	14	30	24	10	11	13	13 – 14	14	10	11	20	15	19	21	12	Aboukhalid et al., 2010
			S RAB 34	1	-	**E1b1b (89%)**	13	14	30	24	10	11	13	14 – 15	14	10	11	20	16	18	21	12	Aboukhalid et al., 2010
			S RAB 35	1	-	**E1b1b (100%)**	13	14	31	24	9	11	13	13 – 14	14	10	10	20	15	18	21	12	Aboukhalid et al., 2010
			S RAB 36	1	-	**E1b1b (99.6%)**	13	14	32	23	9	11	13	13 – 14	14	10	10	20	15	17	21	11	Aboukhalid et al., 2010
			S RAB 37	1	-	**H (60%)**	14	12	28	24	11	11	12	15 – 16	14	8	12	20	15	17	21	13	Aboukhalid et al., 2010
			S RAB 38	1	-	**J1 (100%)**	14	13	29	23	10	11	12	13 – 19	14	10	11	20	14	20	21	11	Aboukhalid et al., 2010
			S RAB 39	1	-	**J1 (100%)**	14	13	29	23	11	11	12	13 – 19	14	10	11	20	14	18.2	21	11	Aboukhalid et al., 2010
			S RAB 40	1	-	**R1b (100%)**	14	13	29	24	11	13	13	11 – 14	15	11	12	19	17	17	24	12	Aboukhalid et al., 2010
			S RAB 41	1	-	**J1 (99.9%)**	14	13	30	23	11	11	12	13 – 18	14	10	11	20	15	19	21	11	Aboukhalid et al., 2010
			S RAB 42	1	-	**J1 (100%)**	14	13	30	23	11	11	12	13 – 19	14	10	10	20	14	18.2	22	11	Aboukhalid et al., 2010
			S RAB 43	1	-	**J1 (100%)**	14	13	30	23	11	11	12	13 – 19	14	10	11	20	14	18.2	21	11	Aboukhalid et al., 2010
			S RAB 44	1	-	**J1 (100%)**	14	13	30	23	11	11	12	13 – 19	14	10	11	20	14	18.2	22	11	Aboukhalid et al., 2010
			S RAB 45	1	-	**J1 (100%)**	14	13	30	23	11	11	12	13 – 19	14	10	11	20	14	19.2	21	11	Aboukhalid et al., 2010
			S RAB 46	1	-	**J1 (100%)**	14	13	30	23	12	11	12	13 – 19	14	10	12	20	14	18.2	21	11	Aboukhalid et al., 2010
			S RAB 47	1	-	**J1 (83.8%)**	14	13	32	22	9	11	13	13 – 15	14	10	15	23	15	15	22	11	Aboukhalid et al., 2010
			S RAB 48	1	-	**J1 (98.5%)**	14	14	30	24	9	11	13	13 – 13	14	10	10	20	15	15	23	12	Aboukhalid et al., 2010
			S RAB 49	1	-	**E1b1b (95.8%)**	14	14	30	24	9	11	13	13 – 14	14	10	10	20	15	17	22	12	Aboukhalid et al., 2010
			S RAB 50	1	-	**J1 (100%)**	14	14	31	23	11	11	12	13 – 19	14	10	11	20	14	18.2	21	11	Aboukhalid et al., 2010
			S RAB 51	1	-	**J2a4b (91.1%)**	14	14	32	24	10	11	12	14 – 16	15	9	12	19	15	16	20	12	Aboukhalid et al., 2010
			S RAB 52	1	-	**J2a4b (56%)**	14	14	32	24	10	11	12	14 – 17	15	9	12	20	15	16	20	12	Aboukhalid et al., 2010
			S RAB 53	1	-	**J2a4b (72.9%)**	14	14	32	24	10	11	12	16 – 16	15	9	12	19	15	16	20	12	Aboukhalid et al., 2010
			S RAB 54	1	-	**G2a (94.7%)**	15	12	28	22	10	11	13	14 – 14	15	10	11	20	15	17	21	12	Aboukhalid et al., 2010
			S RAB 55	1	-	**G2a (99.9%)**	15	12	28	22	10	11	13	14 – 15	15	10	11	21	15	17	21	12	Aboukhalid et al., 2010
			S RAB 56	1	-	**J1 (98.4%)**	15	12	29	23	10	14	12	12 – 14	14	10	12	21	15	19	20	11	Aboukhalid et al., 2010
			S RAB 57	1	-	**J1 (86.3%)**	15	12	29	23	11	14	12	12 – 14	14	10	12	20	15	13	20	11	Aboukhalid et al., 2010
			S RAB 58	1	-	**E1b1a (72%)**	15	12	30	21	9	11	13	16 – 16	14	10	10	20	15	16	21	12	Aboukhalid et al., 2010
			S RAB 59	1	-	**E1b1a (99.8%)**	15	13	29	21	10	11	14	15 – 16	14	11	12	20	16	19	20	11	Aboukhalid et al., 2010
			S RAB 60	1	-	**R1b (100%)**	15	13	29	24	11	13	13	13 – 14	14	12	12	19	15	17	23	13	Aboukhalid et al., 2010
			S RAB 61	1	-	**E1b1a (100%)**	15	13	30	21	10	11	14	16 – 17	14	11	11	21	15	18	23	11	Aboukhalid et al., 2010
			S RAB 62	1	-	**E1b1a (100%)**	15	13	30	21	10	11	14	16 – 18	14	11	12	20	14	16	21	11	Aboukhalid et al., 2010
			S RAB 63	1	-	**R1a (100%)**	15	13	30	25	11	11	13	11 – 14	14	11	10	20	15	18	23	13	Aboukhalid et al., 2010
			S RAB 64	1	-	**R1b (99.1%)**	15	14	31	24	11	13	13	13 – 15	14	12	12	19	15	17	23	12	Aboukhalid et al., 2010
			S RAB 65	1	-	**E1b1a (98.7%)**	16	12	30	21	10	11	14	15 – 15	14	11	12	21	15	18	21	11	Aboukhalid et al., 2010
			S RAB 66	1	-	**E1b1a (100%)**	16	14	34	21	11	11	14	15 – 19	14	11	13	20	15	16	21	11	Aboukhalid et al., 2010
Cosmopolitan		**166**																					
	Casablanca	"																					
			CAS 1	2	-	**J1 (100%)**	14	13	30	23	11	11	12	13 – 18	14	10	11	20	14	18.2	21	11	Laouina et al., 2011
			CAS 2	1	-	**J2a4b (90.2%)**	14	12	28	23	10	11	12	13 – 16	15	9	11	20	15	16	21	11	Laouina et al., 2011
			CAS 3	1	-	**E1b1b (100%)**	14	12	29	23	10	11	13	17 – 18	14	10	10	20	15	15	20	11	Laouina et al., 2011
			CAS 4	4	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	17	21	12	Laouina et al., 2011
			CAS 5	1	-	**E1b1b (99.8%)**	13	13	29	24	9	11	13	12 – 14	14	10	10	20	15	18	21	12	Laouina et al., 2011
			CAS 6	1	-	**J1 (100%)**	14	13	29	23	11	11	12	13 – 20	14	10	11	20	14	18.2	21	11	Laouina et al., 2011
			CAS 7	1	-	**E1b1b (100%)**	13	14	31	24	9	11	13	13 – 14	14	10	10	22	16	18	21	12	Laouina et al., 2011
			CAS 8	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	17	22	12	Laouina et al., 2011
			CAS 9	1	-	**J2a4h (100%)**	15	13	29	23	9	11	12	13 – 16	14	9	12	21	15	14	21	12	Laouina et al., 2011

CAS 10	1	-	**E1b1b (57.7%)**	13	14	30	24	9	11	12	13 – 14	14	10	10	21	16	19	20	11	Laouina et al., 2011
CAS 11	1	-	**E1b1b (100%)**	13	13	31	24	10	11	12	16 – 18	14	10	13	20	14	14	23	12	Laouina et al., 2011
CAS 12	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	18	21	12	Laouina et al., 2011
CAS 13	1	-	**I2a (xI2a1) (95.4%)**	17	14	32	23	11	11	13	15 – 15	17	8	9	20	16	17	21	10	Laouina et al., 2011
CAS 14	1	-	**J2a4 (x bh) (80.5%)**	14	14	30	23	10	11	12	14 – 17	15	9	11	21	15	19	21	11	Laouina et al., 2011
CAS 15	1	-	**J2a4b (94.3%)**	14	13	30	24	10	11	12	14 – 16	15	9	12	19	15	17	20	12	Laouina et al., 2011
CAS 16	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	11	20	16	18	21	12	Laouina et al., 2011
CAS 17	1	-	**E1b1b (100%)**	13	14	31	24	9	11	13	13 – 14	14	10	10	19	16	17	21	13	Laouina et al., 2011
CAS 18	2	-	**E1b1b (99.6%)**	13	14	30	24	9	11	13	13 – 15	14	10	10	20	16	17	21	12	Laouina et al., 2011
CAS 19	1	-	**G2a (49.2%)**	15	12	28	22	10	11	13	15 – 15	17	10	13	19	14	12	20	11	Laouina et al., 2011
CAS 20	2	-	**E1b1b (51%)**	13	14	30	23	10	11	13	13 – 14	14	10	11	20	16	21	21	12	Laouina et al., 2011
CAS 21	1	-	**G2a (97.9%)**	15	13	32	21	10	12	12	13 – 14	16	10	12	20	14	17	19	12	Laouina et al., 2011
CAS 22	1	-	**J1 (99.9%)**	14	13	30	23	11	11	12	13 – 18	14	10	11	20	15	18.2	21	11	Laouina et al., 2011
CAS 23	1	-	**J1 (100%)**	14	12	29	23	11	11	12	13 – 19	14	10	11	21	14	18.2	21	11	Laouina et al., 2011
CAS 24	1	-	**G2a (100%)**	15	12	30	23	10	11	14	12 – 16	16	10	12	21	16	17	21	12	Laouina et al., 2011
CAS 25	1	-	**E1b1b (100%)**	13	12	29	23	10	11	13	17 – 19	14	10	10	20	15	14	21	10	Laouina et al., 2011
CAS 26	1	-	**E1b1b (100%)**	13	12	29	23	10	11	13	18 – 18	14	10	10	20	15	14	22	11	Laouina et al., 2011
CAS 27	1	-	**J1 (100%)**	14	13	30	23	11	11	12	13 – 19	14	10	9	20	14	19.2	20	11	Laouina et al., 2011
CAS 28	2	-	**E1b1b (99%)**	13	13	29	25	9	11	13	13 – 14	14	10	10	21	15	18	21	12	Laouina et al., 2011
CAS 29	1	-	**E1b1a (97.3%)**	15	13	29	21	10	11	14	15 – 16	14	7	11	21	17	17	20	11	Laouina et al., 2011
CAS 30	1	-	**I2a (xI2a1) (99.7%)**	13	14	28	24	11	11	14	11 – 11	14	10	13	20	15	17	24	12	Laouina et al., 2011
CAS 31	1	-	**R1b (100%)**	14	13	30	23	11	13	13	11 – 14	15	12	12	19	15	16	23	10	Laouina et al., 2011
CAS 32	1	-	**G2a (100%)**	15	12	29	22	10	11	14	12 – 15	16	10	13	21	18	17	21	12	Laouina et al., 2011
CAS 33	1	-	**E1b1b (100%)**	13	12	29	22	10	11	13	17 – 18	14	10	11	20	15	14	21	11	Laouina et al., 2011
CAS 34	1	-	**E1b1b (99.9%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	15	17	21	12	Laouina et al., 2011
CAS 35	1	-	**E1b1b (99.8%)**	13	13	29	24	9	11	13	13 – 14	14	10	11	20	15	18	21	12	Laouina et al., 2011
CAS 36	3	-	**E1b1b (99.9%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	14	18	21	11	Laouina et al., 2011
CAS 37	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	16	21	12	Laouina et al., 2011
CAS 38	1	-	**E1b1b (92.3%)**	13	14	30	24	9	11	11	14 – 14	14	10	10	20	15	17	20	12	Laouina et al., 2011
CAS 39	1	-	**J2a4 (x bh) (74.5%)**	14	14	30	22	10	11	12	13 – 19	14	9	13	20	17	16	22	12	Laouina et al., 2011
CAS 40	2	-	**E1b1b (100%)**	13	13	29	24	9	11	13	13 – 14	14	10	10	20	16	18	21	12	Laouina et al., 2011
CAS 41	1	-	**E1b1b (91.2%)**	13	14	30	24	9	11	12	14 – 14	14	10	10	20	15	17	21	12	Laouina et al., 2011
CAS 42	1	-	**T (100%)**	14	14	31	23	10	13	13	14 – 16	14	9	11	19	16	17	21	11	Laouina et al., 2011
CAS 43	1	-	**J1 (95.3%)**	13	14	30	23	9	11	12	14 – 15	14	10	10	20	16	17	21	12	Laouina et al., 2011
CAS 44	2	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	11	20	16	18	22	12	Laouina et al., 2011
CAS 45	1	-	**J1 (100%)**	14	13	30	23	10	11	12	12 – 20	14	10	11	20	14	18	21	11	Laouina et al., 2011
CAS 46	1	-	**E1b1b (99.9%)**	13	14	29	25	9	11	13	13 – 13	14	10	10	20	15	18	22	12	Laouina et al., 2011
CAS 47	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	18	20	12	Laouina et al., 2011
CAS 48	5	-	**J1 (100%)**	14	13	30	23	11	11	12	13 – 19	14	10	11	20	14	18.2	21	11	Laouina et al., 2011
CAS 49	1	-	**E1b1b (100%)**	13	12	29	24	10	11	13	17 – 18	14	10	10	20	15	14	21	11	Laouina et al., 2011
CAS 50	1	-	**R1b (100%)**	14	12	28	24	13	13	12	11 – 11	15	12	11	20	16	17	24	12	Laouina et al., 2011
CAS 51	1	-	**E1b1b (99.9%)**	13	14	30	24	9	11	13	13 – 14	14	10	11	19	16	18	21	11	Laouina et al., 2011
CAS 52	1	-	**J1 (99.7%)**	14	13	30	23	11	10	12	13 – 19	14	11	11	20	15	18.2	21	11	Laouina et al., 2011
CAS 53	1	-	**E1b1b (99.9%)**	13	14	30	24	9	11	13	13 – 14	13	10	10	20	14	18	21	11	Laouina et al., 2011
CAS 54	1	-	**J1 (98.5%)**	13	14	33	24	10	11	12	13 – 15	14	10	10	20	15	17	21	12	Laouina et al., 2011
CAS 55	1	-	**E1b1b (99.8%)**	13	14	30	24	9	11	13	13 – 14	14	10	11	20	15	17	21	12	Laouina et al., 2011
CAS 56	1	-	**G2a (100%)**	15	12	29	22	10	11	14	12 – 16	16	10	12	21	19	18	21	12	Laouina et al., 2011
CAS 57	1	-	**J1 (99.8%)**	14	13	29	23	11	10	12	13 – 19	14	10	11	20	14	18.2	21	11	Laouina et al., 2011
CAS 58	1	-	**E1b1a (99.7%)**	16	13	30	21	11	11	14	16 – 18	14	10	13	20	14	19	23	11	Laouina et al., 2011
CAS 59	1	-	**E1b1b (100%)**	13	13	29	23	9	11	13	14 – 14	14	10	10	20	16	19	22	12	Laouina et al., 2011
CAS 60	1	-	**J2a4b (82.6%)**	14	14	32	24	10	11	12	14 – 16	14	9	12	20	15	16	20	12	Laouina et al., 2011
CAS 61	1	-	**J1 (63.5%)**	14	14	30	24	9	11	13	13 – 15	14	10	10	20	15	18	21	12	Laouina et al., 2011
CAS 62	1	-	**E1b1a (100%)**	15	13	30	21	10	11	13	17 – 17	14	11	12	21	15	17	22	12	Laouina et al., 2011
CAS 63	1	-	**E1b1b (99.8%)**	13	13	29	23	9	11	13	14 – 14	14	10	10	20	16	18	21	12	Laouina et al., 2011
CAS 64	1	-	**E1b1a (100%)**	16	13	31	21	10	11	13	18 – 19	14	11	11	21	15	18	21	11	Laouina et al., 2011
CAS 65	1	-	**E1b1b (100%)**	13	12	29	23	10	11	10	17 – 19	14	10	10	20	15	14	21	11	Laouina et al., 2011
CAS 66	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 13	14	10	10	20	16	18	21	12	Laouina et al., 2011
CAS 67	1	-	**E1b1b (100%)**	13	15	32	24	9	11	13	13 – 14	14	10	10	20	17	18	21	12	Laouina et al., 2011
CAS 68	1	-	**J1 (99.5%)**	13	14	30	23	10	11	12	14 – 15	14	10	10	20	16	17	21	12	Laouina et al., 2011
CAS 69	2	-	**J2a4b (91.1%)**	14	14	32	24	10	11	12	14 – 16	15	9	12	19	15	16	20	12	Laouina et al., 2011
CAS 70	1	-	**C3 (80.2%)**	15	13	29	24	9	11	14	13 – 14	14	10	12	20	16	18	21	12	Laouina et al., 2011
CAS 71	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	19	21	12	Laouina et al., 2011
CAS 72	1	-	**C3 (59.7%)**	15,16	14	31	22	11	11	13	13 – 16	16	10	12	21	16	17	22	12	Laouina et al., 2011
CAS 73	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	18	22	12	Laouina et al., 2011
CAS 74	1	-	**R1b (84.8%)**	16	13	29	24	11	14	13	14 – 15	14	12	13	19	15	17	23	13	Laouina et al., 2011
CAS 75	1	-	**E1b1b (99.9%)**	13	13	31	22	9	11	13	12 – 16	14	10	13	23	15	15	22	11	Laouina et al., 2011
CAS 76	1	-	**E1b1a (100%)**	17	13	29	21	10	11	14	16 – 16	14	11	12	20	15	18	21	11	Laouina et al., 2011
CAS 77	1	-	**E1b1b (93.3%)**	13	13	31	24	10	11	12	14 – 16	14	10	13	20	15	16	25	12	Laouina et al., 2011
CAS 78	2	-	**E1b1b (81.3%)**	14	14	30	24	9	12	13	14 – 15	14	10	10	20	15	17	22	11	Laouina et al., 2011
CAS 79	1	-	**E1b1b (49.6%)**	13	15	31	24	10	11	13	13 – 15	14	10	11	20	15	18	21	12	Laouina et al., 2011
CAS 80	1	-	**E1b1a (100%)**	17	14	31	21	10	11	13	16 – 18	14	11	11	21	14	18	21	12	Laouina et al., 2011
CAS 81	1	-	**E1b1b (99.7%)**	13	14	30	24	9	11	13	12 – 14	14	10	10	20	14	19	21	11	Laouina et al., 2011
CAS 82	1	-	**E1b1b (95.7%)**	13	14	30	24	9	11	13	13 – 14	14	9	10	20	15	18	21	12	Laouina et al., 2011
CAS 83	1	-	**E1b1a (99.9%)**	16	14	31	21	10	11	13	15.3 – 15.3	14	11	13	19	15	16	21	12	Laouina et al., 2011
CAS 84	2	-	**J1 (57.8%)**	13	14	30	24	10	11	13	13 – 15	14	10	11	20	15	18	21	12	Laouina et al., 2011
CAS 85	1	-	**R1b (100%)**	16	13	29	25	12	13	13	11 – 14	15	12	11	17	15	18	23	12	Laouina et al., 2011
CAS 86	1	-	**E1b1b (96.2%)**	13	14	30	23	9	11	13	14 – 15	14	10	10	20	16	18	21	12	Laouina et al., 2011
CAS 87	2	-	**I2a (xI2a1) (64.9%)**	14	12	28	25	11	11	13	14 – 15	15	11	11	19	15	18	24	11	Laouina et al., 2011
CAS 88	1	-	**E1b1b (100%)**	13	14	30	23	9	11	13	14 – 14	14	10	10	20	16	19	22	12	Laouina et al., 2011
CAS 89	2	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 13	14	10	10	20	16	18	22	12	Laouina et al., 2011
CAS 90	1	-	**J1 (100%)**	14	13	30	23	12	11	12	13 – 19	14	10	11	20	14	18.2	21	12	Laouina et al., 2011
CAS 91	1	-	**E1b1b (97.1%)**	13	14	30	23	9	11	13	14 – 15	14	10	10	20	16	19	21	12	Laouina et al., 2011
CAS 92	1	-	**E1b1b (100%)**	13	12	29	22	10	11	13	17 – 18	14	10	10	20	15	15	21	11	Laouina et al., 2011
CAS 93	1	-	**E1b1b (99.8%)**	13	12	28	24	9	11	13	13 – 14	14	10	11	20	15	17	21	12	Laouina et al., 2011
CAS 94	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	16	18	21	14	Laouina et al., 2011
CAS 95	1	-	**E1b1b (100%)**	13	12	29	22	10	11	13	18 – 18	14	10	11	20	15	14	21	11	Laouina et al., 2011
CAS 96	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	17	19	21	12	Laouina et al., 2011
CAS 97	1	-	**E1b1b (97.1%)**	13	14	30	23	10	11	13	13 – 14	14	10	10	20	16	18	21	12	Laouina et al., 2011
CAS 98	1	-	**E1b1b (99.6%)**	13	13	31	22	9	11	13	12 – 15	14	10	12	23	15	15	22	11	Laouina et al., 2011
CAS 99	1	-	**E1b1b (100%)**	13	12	29	23	10	11	12	17 – 18	13	10	10	20	15	15	21	11	Laouina et al., 2011
CAS 100	1	-	**E1b1b (81.8%)**	13	14	30	23	9	11	12	14 – 14	14	10	10	20	16	19	21	12	Laouina et al., 2011
CAS 101	1	-	**J2a4b (91.5%)**	14	13	31	24	10	11	12	14 – 16	15	9	12	19	15	16	20	12	Laouina et al., 2011
CAS 102	4	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	19	16	18	21	12	Laouina et al., 2011
CAS 103	1	-	**E1b1b (99.9%)**	13	13	29	24	9	11	13	13 – 14	14	10	10	20	15	18	21	12	Laouina et al., 2011
CAS 104	1	-	**E1b1b (100%)**	13	12	30	23	10	11	12	17 – 18	14	10	10	20	15	15	21	11	Laouina et al., 2011
CAS 105	1	-	**E1b1a (100%)**	16	13	31	21	10	11	14	13 – 17	14	11	12	21	15	16	21	12	Laouina et al., 2011
CAS 106	2	-	**E1b1b (100%)**	13	12	29	24	10	11	13	17 – 18	14	10	10	20	15	14	22	11	Laouina et al., 2011
CAS 107	1	-	**J1 (95.1%)**	14	14	31	25	10	11	12	16 – 19	14	10	13	20	15	16	19	13	Laouina et al., 2011
CAS 108	1	-	**E1b1a (99.3%)**	15	12	29	21	10	11	14	15 – 16	14	11	13	21	15	18	21	12	Laouina et al., 2011
CAS 109	1	-	**E1b1b (99.3%)**	13	14	30	24	10	11	13	13 – 14	14	10	10	20	15	18	21	12	Laouina et al., 2011
CAS 110	1	-	**E1b1a (100%)**	15	13	31	21	11	11	13	16 – 18	14	11	10	22	14	18	21	11	Laouina et al., 2011
CAS 111	1	-	**R1b (100%)**	15	13	29	24	11	13	11	11 – 14	15	12	11	19	15	15	24	13	Laouina et al., 2011
CAS 112	1	-	**J2a4b (55.8%)**	14	13	31	24	10	11	12	14 – 17	15	9	11	19	15	15	20	12	Laouina et al., 2011
CAS 113	1	-	**J1 (100%)**	14	12	30	23	12	11	12	12 – 19	14	10	11	20	14	20	21	11	Laouina et al., 2011
CAS 114	1	-	**E1b1b (99.9%)**	14	11	29	23	10	11	13	17 – 18	14	10	10	20	16	19	21	11	Laouina et al., 2011
CAS 115	1	-	**E1b1b (93.8%)**	13	14	30	24	9	11	12	14 – 14	13	10	10	20	15	18	21	12	Laouina et al., 2011
CAS 116	1	-	**R1b (100%)**	14	13	29	24	11	13	13	11 – 14	15	12	11	19	15	18	23	12	Laouina et al., 2011
CAS 117	1	-	**E1b1a (100%)**	16	13	31	21	10	11	14	16 – 17	14	11	12	21	15	16	21	12	Laouina et al., 2011
CAS 118	1	-	**E1b1b (99.9%)**	13	14	30	24	9	11	13	14 – 14	14	10	10	20	15	18	20	12	Laouina et al., 2011
CAS 119	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	14 – 14	14	10	10	20	16	18	20	12	Laouina et al., 2011
CAS 120	1	-	**J2a4b (82.9%)**	15	14	31	22	10	11	12	13 – 15	14	9	12	18	15	15	21	10	Laouina et al., 2011
CAS 121	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	20	14	19	22	11	Laouina et al., 2011
CAS 122	1	-	**E1b1b (98.7%)**	13	14	30	25	9	11	13	13 – 14	14	10	11	20	14	17	21	11	Laouina et al., 2011
CAS 123	1	-	**E1b1b (100%)**	13	15	32	24	9	11	13	15 – 16	14	10	10	20	16	17	21	12	Laouina et al., 2011
CAS 124	1	-	**J2a4b (87.9%)**	14	14	32	24	10	11	12	14 – 16	15	9	13	19	15	16	20	12	Laouina et al., 2011
CAS 125	1	-	**C3 (87.4%)**	14	14	30	24	9	11	13	12 – 14	14	10	10	20	15	18	21	12	Laouina et al., 2011
CAS 126	1	-	**J1 (95.4%)**	14	14	30	24	9	11	12	13 – 14	14	10	10	20	15	17	21	12	Laouina et al., 2011
CAS 127	1	-	**J2a4b (86.8%)**	14	14	32	24	10	11	12	14 – 16	15	9	12	19	15	15	20	12	Laouina et al., 2011
CAS 128	1	-	**L (91.3%)**	15	12	29	22	10	13	13	15.3 – 15.3	16	10	12	19	14	17	21	11	Laouina et al., 2011
CAS 129	1	-	**E1b1b (98.7%)**	13	14	30	25	9	11	13	13 – 14	13	10	11	20	14	17	21	11	Laouina et al., 2011
CAS 130	1	-	**E1b1b (100%)**	13	14	30	24	9	11	14	13 – 14	13	10	10	20	16	18	21	12	Laouina et al., 2011
CAS 131	1	-	**E1b1a (99.4%)**	14	13	30	21	10	11	13	13 – 18	13	11	12	21	15	16	21	12	Laouina et al., 2011
CAS 132	1	-	**E1b1a (100%)**	15	13	30	21	11	11	13	15 – 17	14	11	12	22	15	16	22	11	Laouina et al., 2011
CAS 133	1	-	**E1b1b (100%)**	14	12	30	24	10	11	13	17 – 18	13	10	10	20	15	14	21	11	Laouina et al., 2011
CAS 134	1	-	**E1b1b (100%)**	13	13	29	24	9	12	13	13 – 13	13	10	10	20	16	18	21	12	Laouina et al., 2011
CAS 135	1	-	**E1b1b (100%)**	13	13	30	24	9	11	13	14 – 14	13	10	10	20	15	18	21	13	Laouina et al., 2011
CAS 136	1	-	**J1 (100%)**	14	13	30	23	10	11	12	13 – 18	14	10	11	19	14	18.2	21	11	Laouina et al., 2011
CAS 137	1	-	**J1 (100%)**	14	13	31	23	11	11	12	13 – 19	14	10	11	20	14	18.2	22	11	Laouina et al., 2011
CAS 138	1	-	**E1b1b (100%)**	13	14	30	24	9	11	13	13 – 14	14	10	10	19	16	17	21	12	Laouina et al., 2011
CAS 139	1	-	**J2a4 (x bh) (96.1%)**	13	13	31	22	9	11	13	12 – 15	14	9	13	22	15	14	22	11	Laouina et al., 2011
CAS 140	1	-	**C3 (98.4%)**	15	14	30	24	9	11	13	13 – 14	14	10	10	20	15	18	21	12	Laouina et al., 2011
CAS 141	1	-	**E1b1b (97.2%)**	13	14	30	22	9	11	14	14 – 15	14	10	10	20	16	20	21	12	Laouina et al., 2011
CAS 142	1	-	**J2a4 (x bh) (63.4%)**	14	14	30	23	10	0	12	0 – 0	14	9	13	0	17	16	22	11	Laouina et al., 2011

S- Table 3. Y-chromosome profiles of 235 individuals from the different regions of the Zamora province

Haplogroup Haplotypes	Y-STR haplotypes																Frequency					
																	AL	**BD**	**BV**	**CP**	**SN**	**SY**
E1b1b1a- M78																						
H1	14	13	30	25	10	11	12	17-17	14	10	12	20	17	15	21	12		**1**				
H2	14	13	30	24	10	11	13	16-18	14	10	11	20	17	15	24	12		**1**				
H3	14	13	30	24	10	11	13	16-18	14	10	11	20	16	15	24	12		**1**				
H4	13	14	31	24	10	11	13	16-18	14	10	11	20	15	15	25	12		**1**				
H5	13	13	30	24	10	11	13	17-18	14	10	11	20	18	15	22	12			**1**			
H6	13	13	30	23	10	11	13	18-18	14	10	11	20	16	15	22	12					**1**	
H7	13	13	30	23	10	11	13	17-18	14	10	11	20	16	15	22	12					**2**	
H8	14	14	31	24	10	11	13	17-19	14	10	11	20	16	15	20	13					**1**	
H9	13	13	31	24	10	11	13	16-18	14	10	12	20	16	15	21	11						**1**
H10	13	13	30	24	10	11	13	16-16	14	10	11	20	17	16	22	12						**1**
E1b1b1b- M81																						
H11	13	14	30	24	9	11	13	13-14	14	10	10	20	15	19	21	11		**1**				
H12	13	14	30	24	9	11	13	13-14	14	10	10	20	16	19	21	11			**1**			
H13	13	14	30	25	9	11	13	13-14	14	10	10	20	16	19	22	12			**1**			
H14	13	14	30	24	9	11	13	14-14	14	10	10	20	16	18	21	12				**1**		
H15	13	13	29	24	9	11	13	14-14	14	10	10	20	16	17	22	12				**1**		
H16	13	13	29	24	9	11	13	13-14	14	10	10	19	15	18	21	12				**1**		
H17	13	14	30	24	9	11	13	13-14	14	10	10	20	16	18	20	12				**1**		
H18	13	13	29	24	9	11	13	13-14	14	10	10	20	16	19	21	12					**2**	
H19	14	14	30	24	9	11	13	13-14	14	10	10	20	16	19	21	12					**1**	
H20	13	14	30	24	9	11	13	12-15	14	10	10	20	16	19	22	12						**1**
H21	13	14	30	24	9	11	13	13-13	14	10	10	20	15	18	21	12						**1**
H22	13	13	29	25	9	11	13	11-14	14	10	10	20	16	17	22	12						**1**
E1b1b1c- M123																						
H23	15	13	31	21	10	12	14	16-17	14	11	11	20	15	18	22	11	**1**					
H24	17	13	28	23	10	11	13	12-12	15	10	11	22	14	16	23	12				**1**		

H25	13	12	30	24	10	11	13	16-19	14	10	13	20	15	18	20	9				**1**		
H26	16	14	30	24	10	12	14	12-15	15	10	12	20	15	17	21	10				**1**		
H27	13	14	32	24	10	11	13	17-17	14	10	12	19	15	18	22	11					**1**	
H28	13	14	32	24	10	11	13	15-17	14	10	12	19	15	17	23	11					**1**	
F*- M213																						
H29	15	12	29	22	10	11	14	13-15	16	10	9	21	16	17	21	13	**1**					
H30	15	12	29	21	11	13	15	13-17	16	11	11	22	15	17	21	11					**1**	
H31	15	12	29	23	11	11	13	12-14	15	9	11	21	15	16	24	11					**1**	
H32	15	12	29	22	10	11	14	13-14	16	10	11	20	16	17	21	12					**1**	
G- M201																						
H33	15	12	29	23	10	11	14	14-16	16	11	10	21	17	17	21	12	**1**					
H34	15	12	29	23	10	11	14	13-15	16	11	9	21	16	17	21	13	**1**					**1**
H35	15	12	29	21	10	11	13	13-15	16	11	11	21	15	17	21	11	**1**					
H36	15	12	29	24	10	11	13	12-18	16	11	12	20	15	19	22	11				**1**		
H37	15	12	28	23	10	11	14	12-14	16	11	11	20	15	16	22	11				**1**		
H38	15	12	28	23	10	11	15	15-15	15	11	13	21	16	16	21	12					**1**	
H39	15	12	29	23	10	11	14	12-16	16	11	13	21	16	15	21	12					**1**	
H40	15	14	30	23	10	11	14	13-15	18	11	11	21	14	18	22	11						**1**
H41	15	12	29	23	10	11	14	13-15	16	11	9	20	16	17	21	13						**1**
H42	15	12	29	20	10	11	14	14-17	16	12	12	21	17	17	21	11						**1**
H43	15	13	30	23	10	11	14	14-16	16	11	12	21	16	19	20	11						**1**
I- M170																						
H44	14	12	29	23	10	11	13	13-14	16	11	12	20	14	15	22	10	**1**					
H45	14	12	29	22	11	11	13	13-14	16	10	11	20	14	15	22	10			**1**			
H46	15	12	28	23	10	11	13	13-15	16	11	12	20	14	14	21	11			**1**			
I1- M253																						
H47	17	12	30	26	11	11	14	13-17	15	11	11	20	14	17	21	10	**1**					
H48	15	13	30	24	10	12	14	13-14	15	11	11	20	14	17	20	11	**1**					
H49	14	12	28	24	10	11	12	14-14	16	11	11	20	14	15	22	11	**1**					
H50	15	12	28	23	10	11	13	13-14	16	11	12	20	14	15	21	11		**1**				
H51	16	12	28	26	10	11	13	13-15	15	11	12	20	14	16	22	10			**1**			
H52	14	12	27	23	10	11	12	14-14	16	9	11	20	14	15	21	11			**1**			

H53	15	13	31	24	11	12	15	16-16	15	11	11	20	14	16	21	12				**1**		
H54	16	14	29	23	10	11	13	12-12	14	10	11	20	14	16	20	11				**1**		
H55	15	12	28	23	10	11	13	13-14	17	11	12	20	14	15	21	10					**1**	
H56	14	11	26	23	10	11	13	14-15	16	12	11	21	14	15	22	11					**1**	
I2b- M223																						
H57	15	14	32	24	10	12	15	15-15	14	11	11	20	14	15	21	10	**1**					
H58	14	14	32	23	10	12	14	13-14	15	11	13	20	17	16	20	11		**1**				
H59	16	13	28	24	10	12	14	14-15	15	9	11	20	15	17	22	11		**1**				
H60	15	13	30	26	10	12	15	15-15	15	11	11	20	14	17	20	11				**1**		
H61	16	12	28	26	10	11	13	13-15	15	11	12	20	14	16	21	10				**1**		
H62	15	13	30	25	10	12	14	14-15	15	11	11	20	14	17	20	11						**1**
J1- M267																						
H63	14	14	30	24	11	11	12	11-15	14	10	12	20	16	20.2	20	11	**1**					
H64	14	14	30	24	11	11	12	11-15	14	10	12	20	15	20.2	20	11	**1**					
H65	13	12	28	23	10	11	12	12-17	14	10	12	20	15	18.2	21	10	**1**	**1**				
H66	14	14	30	24	11	11	12	11-15	14	10	12	20	16	19.2	24	11	**1**					
H67	15	14	30	23	10	11	13	12-17	15	12	11	19	15	18.2	21	12		**1**				
H68	13	12	28	23	10	11	12	12-17	14	10	12	20	15	19.2	21	10			**1**			
H69	14	14	30	23	10	11	12	13-13	14	10	12	21	15	19.2	20	11			**1**			
H70	14	13	30	22	10	11	11	13-15	14	10	11	21	15	18.2	21	11				**1**		
H71	14	13	29	22	10	11	12	11-18	14	10	12	21	15	18.2	22	11					**2**	
J2- M172																						
H72	14	13	29	24	10	11	12	14-16	15	9	11	21	15	16	22	11	**2**					
H73	15	13	30	23	9	11	12	13-16	14	9	11	21	16	14	24	12			**1**			
H74	15	12	28	23	10	10	12	13-15	15	9	10	21	15	16	25	11			**1**			
H75	15	13	29	23	9	11	12	13-16	14	9	11	21	16	14	24	12			**1**			
H76	14	12	30	23	10	11	12	13-16	15	9	11	20	15	18	21	11				**1**		
H77	14	14	30	23	10	11	12	13-16	15	9	11	19	18	15	22	11					**1**	
H78	14	14	31	24	10	11	13	13-16	16	9	11	19	15	17	20	11					**1**	
H79	15	13	29	23	9	11	12	13-16	14	9	12	21	16	14	21	12					**1**	
H80	14	12	28	23	10	11	12	13-17	14	9	11	21	15	19	22	11					**1**	
H81	16	13	30	23	10	11	12	12-17	15	9	12	21	15	16	24	11						**2**

H82	14	12	29	23	10	11	12	13-17	15	9	11	20	15	14	22	11						**1**
J2a2a-M92																						
H83	16	13	32	22	10	11	12	13-15	14	9	11	21	15	15	21	12		**1**				
J2b- M102																						
H84	14	12	28	24	10	11	12	17-17	16	9	12	19	13	16	21	11	**1**					
H85	14	12	28	24	10	11	12	16-17	16	9	12	19	13	17	21	11	**1**					
K*- M9																						
H86	15	12	28	24	10	14	13	14-16	14	10	11	19	15	15	21	10	**1**					
H87	15	14	30	25	10	13	13	14-16	14	10	11	19	14	18	22	11				**1**		
H88	15	13	29	24	10	13	13	15-17	14	10	11	20	15	18	21	11						**1**
P*- M74																						
H89	14	14	31	25	11	13	12	10-15	15	13	12	19	16	15	24	12				**1**		
R1- M173																						
H90	14	13	29	23	11	13	13	11-14	15	12	12	19	16	19	23	11	**1**					
H91	14	14	30	23	10	13	13	12-14	15	12	12	20	15	17	23	12		**1**		**1**		
H92	14	13	29	24	11	13	13	12-14	14	12	11	19	16	16	23	12			**1**			
R1a- SRY10831.2																						
H93	15	13	30	25	10	11	13	11-15	14	11	11	20	15	15	23	12			**1**			
H94	16	14	32	25	10	11	14	11-14	14	11	10	20	15	15	23	13					**1**	
R1b1- P25																						
H95	14	13	29	24	11	13	14	11-13	15	12	11	19	16	18	23	12	**1**					
H96	15	12	28	25	11	13	13	11-14	15	12	12	19	15	17	23	12	**2**		**1**			
H97	14	13	29	24	11	13	14	11-14	14	12	12	20	17	16	23	11	**1**					
H98	14	14	30	25	11	13	13	11-14	14	9	13	18	16	16	24	11	**1**					
H99	14	13	29	24	10	13	14	12-15	15	12	12	18	16	18	23	12	**1**					
H100	14	13	28	24	11	13	13	11-14	15	12	12	20	15	16	23	11	**1**					
H101	14	13	29	25	11	13	14	11-14	14	12	11	20	15	17	23	11	**1**					
H102	14	13	29	24	11	13	13	11-14	15	12	12	19	15	17	23	11	**1**					
H103	14	12	28	24	11	13	13	10-14	15	12	12	19	16	16	23	12	**1**					
H104	14	12	28	24	11	13	13	11-14	15	12	12	19	18	16	23	12	**1**	**1**				
H105	14	13	29	24	11	13	13	11-13	15	12	12	19	15	16	23	10	**1**					
H106	14	13	29	25	11	13	13	11-14	15	12	12	20	17	18	23	11	**1**					

H107	14	13	28	23	11	14	12	11-14	15	12	13	19	16	17	23	12	**1**		
H108	14	13	29	24	10	12	12	11-14	15	12	11	19	15	17	23	12	**1**		
H109	14	14	30	26	10	13	14	12-14	15	13	12	19	15	16	23	11		**1**	
H110	14	13	29	24	11	13	12	11-14	15	12	11	19	15	17	23	12		**1**	
H111	14	14	30	24	11	13	13	11-14	14	12	12	18	15	16	24	11		**1**	
H112	14	13	29	23	13	13	13	11-14	15	12	12	19	16	17	24	12		**1**	
H113	14	13	30	25	11	13	13	11-14	14	12	12	18	15	17	23	11		**1**	
H114	14	14	30	24	10	13	13	11-14	15	12	12	20	15	17	23	12		**2**	
H115	14	13	29	24	10	13	13	11-14	15	12	13	21	15	17	26	11		**1**	
H116	14	13	29	25	10	13	13	11-15	14	12	12	19	16	17	23	12		**1**	
H117	14	13	30	24	11	13	13	11-14	15	12	12	19	15	18	23	12		**1**	
H118	15	13	29	24	11	13	12	11-13	15	13	13	19	15	16	23	12		**1**	
H119	14	13	29	24	10	13	12	11-14	15	12	11	19	15	17	23	12		**1**	
H120	14	13	28	24	11	13	13	10-14	15	11	13	19	15	17	23	12		**1**	
H121	14	13	29	24	11	13	13	11-14	15	12	11	19	14	17	24	12		**1**	
H122	15	13	29	24	11	13	13	11-14	15	12	13	19	15	16	24	11		**1**	
H123	14	13	31	24	11	13	13	11-15	15	12	12	19	15	18	23	12		**1**	
H124	14	13	29	25	11	13	13	11-14	15	12	12	19	15	16	23	12		**1**	
H125	14	13	29	25	11	13	13	11-14	15	12	12	19	15	18	23	12		**1**	**1**
H126	14	14	28	24	10	13	13	11-14	16	12	11	19	16	17	23	12			**1**
H127	14	13	29	24	11	13	13	11-15	15	12	11	19	16	17	24	11			**1**
H128	14	14	30	24	11	13	13	11-13	14	12	12	19	16	18	23	12			**1**
H129	14	13	29	24	11	13	14	12-14	15	13	11	20	17	17	23	12			**1**
H130	15	14	31	25	10	13	13	11-15	15	12	12	19	15	17	23	12			**1**
H131	14	13	29	24	10	14	13	11-11	14	12	12	18	15	17	23	12			**1**
H132	15	14	30	24	11	13	13	11-14	15	12	12	19	17	19	23	11			**1**
H133	14	13	29	24	10	13	13	11-15	15	12	12	19	15	19	23	11			**1**
H134	15	15	31	24	11	13	13	11-14	15	12	11	19	14	17	23	12			**1**
H135	14	12	28	24	12	13	13	11-14	15	12	13	19	15	16	24	12			**1**
H136	14	13	29	24	11	13	13	11-14	15	12	12	19	16	18	23	12			**1**
H137	14	13	29	24	11	13	13	11-15	15	12	12	19	16	17	24	11			**1**
H138	14	13	30	25	11	13	13	11-14	15	12	12	19	15	18	23	12			**1**

H139	14	13	30	24	10	13	13	11-15	15	12	11	19	15	17	23	12	**1**		
H140	15	13	30	25	11	13	13	10-14	15	12	11	19	16	16	23	11	**1**		
H141	14	14	30	24	11	13	13	11-14	15	12	11	19	15	16	24	12	**1**		
H142	14	13	29	24	10	13	13	11-15	15	12	12	19	15	17	23	12	**1**		
H143	14	13	28	24	11	13	13	11-14	14	12	11	18	15	18	23	11	**1**		
H144	14	13	29	24	10	13	13	12-13	14	12	12	18	16	17	23	12	**1**		
H145	15	13	29	23	11	13	13	11-11	15	12	11	19	17	17	23	12	**1**		
H146	14	13	29	22	11	13	13	11-13	15	12	12	19	15	16	24	12	**1**		
H147	14	13	29	24	11	13	13	12-14	15	12	11	18	15	17	24	12	**1**		
H148	14	14	30	24	11	13	13	11-14	14	12	12	18	15	17	23	11	**1**		
H149	14	13	29	23	11	13	13	11-11	14	12	13	18	15	17	23	11	**1**		
H150	14	13	29	24	10	13	13	11-14	15	12	11	18	16	17	23	12	**1**		
H151	14	13	30	24	10	13	13	11-14	14	13	12	18	16	16	23	11	**1**		
H152	15	13	28	25	11	13	13	11-14	15	12	12	19	16	20	23	12		**1**	**1**
H153	14	13	29	24	10	14	13	11-16	15	12	11	20	15	18	23	12		**1**	
H154	15	13	29	24	11	13	12	11-15	15	12	12	19	15	16	23	13		**1**	
H155	14	14	30	25	10	13	14	12-14	15	12	12	19	15	16	23	11		**1**	
H156	14	13	19	24	11	13	13	11-15	15	12	13	20	14	16	24	12		**1**	
H157	14	13	29	24	11	13	13	11-14	14	12	11	19	15	17	23	12		**1**	
H158	14	13	29	24	11	14	13	11-14	15	12	11	19	16	17	23	12		**1**	
H159	14	13	29	24	11	13	13	11-14	14	12	12	19	16	17	23	12		**1**	
H160	14	13	30	24	10	13	13	11-14	15	12	11	19	15	17	24	12		**1**	
H161	14	13	29	22	11	12	13	11-13	15	12	12	19	15	16	24	12		**1**	
H162	14	13	28	23	10	13	13	11-14	15	12	11	19	16	17	23	12		**1**	
H163	15	13	29	24	11	13	13	11-14	14	12	12	19	16	17	24	12		**1**	
H164	13	14	30	24	11	13	13	11-15	14	12	13	18	15	16	23	10		**1**	
H165	14	13	29	24	10	13	13	11-14	15	12	12	19	16	16	23	11		**2**	
H166	14	13	29	24	11	13	13	12-14	15	12	12	19	16	18	24	12		**1**	
H167	14	13	29	22	11	13	13	11-13	15	12	11	19	15	16	24	12		**1**	
H168	15	13	28	23	11	13	13	11-14	15	10	12	19	16	17	23	13		**1**	
H169	14	14	31	24	11	13	13	11-15	15	12	12	19	15	17	23	12		**1**	
H170	14	13	30	23	11	13	13	11-14	15	12	12	19	15	17	23	12		**1**	

H171	15	12	28	23	11	13	14	12-15	15	12	12	18	16	17	23	12	**1**		
H172	14	14	30	24	11	13	13	12-14	14	12	13	18	15	16	23	11	**1**		
H173	14	13	29	24	11	13	13	11-14	15	12	12	19	14	18	24	12	**1**		
H174	14	13	29	25	11	13	13	10-12	15	12	12	19	16	17	23	11	**1**		
H175	14	13	29	24	11	13	13	11-14	15	12	13	19	16	18	23	12	**1**		
H176	14	13	29	23	11	13	13	11-14	15	12	12	19	15	16	24	11	**1**		
H177	14	14	31	23	10	13	13	10-14	14	12	12	18	15	18	23	12	**1**		
H178	14	12	28	24	10	13	13	11-14	15	12	12	19	16	16	23	12	**1**		
H179	14	13	29	24	10	13	13	11-14	15	12	13	18	16	17	23	12	**1**		
H180	15	13	29	22	11	13	12	11-14	15	12	11	19	16	18	23	13	**1**		
H181	14	13	29	25	11	14	13	11-14	15	12	12	18	16	18	23	12		**1**	
H182	14	13	29	25	11	13	14	11-14	15	13	11	19	16	15	23	12		**1**	
H183	14	14	30	24	11	13	13	11-14	14	12	11	18	15	17	23	11		**1**	
H184	14	14	31	24	11	13	13	11-15	14	12	13	18	15	18	23	11		**1**	
H185	14	13	27	24	10	13	14	11-14	15	11	12	19	17	17	23	11		**1**	
H186	14	13	29	23	10	12	14	12-15	14	12	11	18	16	16	23	11		**1**	
H187	14	13	29	24	12	13	13	11-16	15	12	11	20	15	18	23	13		**1**	
H188	16	12	28	25	10	11	13	13-15	15	10	12	21	14	16	21	10		**1**	
H189	14	14	30	23	11	13	13	10-15	14	12	11	19	16	16	23	12		**1**	
H190	14	13	29	25	11	13	13	11-14	15	12	12	19	16	18	23	13		**1**	
H191	14	13	29	23	10	14	13	11-15	15	11	12	19	15	17	23	12		**1**	
H192	14	13	29	24	11	13	13	11-15	15	12	11	19	16	20	23	12		**1**	
H193	14	14	30	24	11	13	13	11-14	15	12	12	19	16	17	23	12		**1**	
H194	14	13	29	24	11	13	13	12-15	15	12	12	19	16	17	23	10		**1**	
H195	14	13	27	24	10	13	14	11-14	15	11	11	19	16	17	23	12		**1**	
H196	15	13	29	25	11	13	14	11-14	15	12	12	19	15	15	23	12		**1**	
H197	14	14	27	24	11	13	13	11-14	14	12	11	19	15	17	23	11		**1**	
H198	14	13	29	24	10	13	15	12-15	15	12	12	19	16	18	23	12		**1**	
H199	14	13	29	23	10	13	15	12-15	15	12	12	18	16	19	23	12		**1**	
H200	14	13	29	24	10	13	15	12-15	15	12	12	19	15	18	23	12		**1**	
H201	14	14	31	24	11	13	12	10-15	15	12	12	19	16	15	24	12		**1**	
H202	14	13	29	24	11	13	13	11-14	15	12	12	19	16	16	23	12		**1**	**1**

H203	14	14	30	23	11	13	14	11-14	14	12	12	18	16	16	23	12					**1**	
H204	14	12	28	24	11	13	13	11-14	15	12	12	18	16	18	23	12					**1**	
H205	14	13	29	24	11	13	14	11-14	15	12	11	19	16	15	23	12						**1**
H206	14	14	30	24	10	13	13	11-14	15	12	12	19	15	17	23	13						**1**
H207	14	12	28	24	11	13	13	12-13	15	12	12	19	15	16	24	12						**1**
H208	14	13	29	24	11	13	13	11-14	14	12	11	18	16	18	23	11						**1**
H209	13	13	29	24	11	13	13	11-14	15	12	12	19	16	20	25	12						**1**
H210	14	15	31	24	10	13	13	11-14	15	12	12	19	16	16	24	11						**1**
H211	14	14	30	24	11	13	13	11-14	14	12	12	18	16	16	24	11						**1**
H212	15	14	30	24	11	13	13	11-14	14	12	12	19	17	17	23	11						**1**
H213	14	13	30	24	11	13	13	11-14	15	12	13	19	17	17	24	12						**1**
H214	14	13	29	24	11	13	13	11-14	14	12	12	18	15	17	23	11						**1**
H215	14	12	28	23	10	13	13	11-14	16	12	12	19	16	18	23	13						**1**
R1b1b2c- M153																						
H216	14	14	30	24	10	13	13	11-14	14	12	12	18	15	17	23	12	**1**					
H217	14	14	30	24	11	13	13	11-14	14	12	11	18	15	17	23	11				**1**		
R1b1b2d- SRY2627																						
H218	15	13	29	24	11	13	13	11-14	15	12	11	19	16	18	23	12			**1**			
H219	14	13	29	24	10	13	13	11-14	14	12	12	19	15	17	23	12				**1**		

Y-STR order in haplotypes: DYS19, DYS389I, DYS389II, DYS390, DYS391, DYS392, DYS393, DYS385, DYS437, DYS438, DYS439, DYS448, DYS456, DYS458, DYS635 and GATA H4.1.

S- Table 4. Number of mutational steps from the Y-chromosome profiles of the Zamora province to the closest Northwest African haplotype

Ht	Hg	DYS19	DYS389I	DYS389II	DYS390	DYS391	DYS392	DYS393	DYS385	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	GATAH4.1	mutational steps
H11	**E1b1b1b-M81**	13	14	30	24	9	11	13	13-14	14	10	10	20	15	19	21	11	**1**
H12	**E1b1b1b-M81**	13	14	30	24	9	11	13	13-14	14	10	10	20	16	19	21	11	**1**
H13	**E1b1b1b-M81**	13	14	30	25	9	11	13	13-14	14	10	10	20	16	19	22	12	**2**
H14	**E1b1b1b-M81**	13	14	30	24	9	11	13	14-14	14	10	10	20	16	18	21	12	**1**
H15	**E1b1b1b-M81**	13	13	29	24	9	11	13	14-14	14	10	10	20	16	17	22	12	**1**
H16	**E1b1b1b-M81**	13	13	29	24	9	11	13	13-14	14	10	10	19	15	18	21	12	**1**
H17	**E1b1b1b-M81**	13	14	30	24	9	11	13	13-14	14	10	10	20	16	18	20	12	**0**
H18	**E1b1b1b-M81**	13	13	29	24	9	11	13	13-14	14	10	10	20	16	19	21	12	**0**
H19	**E1b1b1b-M81**	14	14	30	24	9	11	13	13-14	14	10	10	20	16	19	21	12	**2**
H20	**E1b1b1b-M81**	13	14	30	24	9	11	13	12-15	14	10	10	20	16	19	22	12	**1**
H21	**E1b1b1b-M81**	13	14	30	24	9	11	13	13-13	14	10	10	20	15	18	21	12	**0**
H22	**E1b1b1b-M81**	13	13	29	25	9	11	13	11-14	14	10	10	20	16	17	22	12	**3**
H63	**J1-M267**	14	14	30	24	11	11	12	11-15	14	10	12	20	16	20.2	20	11	**>3**
H64	**J1-M267**	14	14	30	24	11	11	12	11-15	14	10	12	20	15	20.2	20	11	**>3**
H65	**J1-M267**	13	12	28	23	10	11	12	12-17	14	10	12	20	15	18.2	21	10	**>3**
H66	**J1-M267**	14	14	30	24	11	11	12	11-15	14	10	12	20	16	19.2	24	11	**>3**
H67	**J1-M267**	15	14	30	23	10	11	13	12-17	15	12	11	19	15	18.2	21	12	**>3**
H68	**J1-M267**	13	12	28	23	10	11	12	12-17	14	10	12	20	15	19.2	21	10	**>3**
H69	**J1-M267**	14	14	30	23	10	11	12	13-13	14	10	12	21	15	19.2	20	11	**>3**
H70	**J1-M267**	14	13	30	22	10	11	11	13-15	14	10	11	21	15	18.2	21	11	**>3**
H71	**J1-M267**	14	13	29	22	10	11	12	11-18	14	10	12	21	15	18.2	22	11	**>3**