

Additional file 2.1. HLA-A*, B*, C*, DRB1* and DQB1* alleles frequencies in 70 BT leprosy and 132 BB and BL leprosy patients controls.

HLA allele	BT leprosy (N=70)		BB+BL (N=132)		p	HLA allele	BT leprosy (N=70)		BB+BL (N=132)		p
	n	Fa (%)	n	Fa (%)			n	Fa (%)	n	Fa (%)	
	A*01	13	18.57	20			9.85	0.552	A*31	04	
A*02	37	52.86	70	53.03	1.000	A*32	03	4.28	08	6.06	0.750
A*03	19	27.14	31	23.48	0.608	A*33	08	11.43	04	3.03	0.025
A*11	05	7.14	17	12.88	0.244	A*34	00	0.00	02	1.51	0.544
A*23	04	5.71	10	7.57	0.774	A*36	01	1.43	01	0.76	1.000
A*24	13	18.57	27	20.45	0.853	A*66	02	2.86	00	0.00	0.119
A*25	02	2.86	01	0.76	0.276	A*68	08	11.43	17	12.88	0.826
A*26	05	7.14	14	10.61	0.613	A*69	00	0.00	00	0.00	1.000
A*29	04	5.71	12	9.09	0.585	A*74	02	2.86	03	2.27	1.000
A*30	10	14.28	17	12.88	0.829	A*80	00	0.00	01	0.76	1.000
B*07	15	21.43	23	17.42	0.570	B*47	01	1.43	01	0.76	1.000
B*08	10	14.28	15	11.36	0.654	B*48	01	1.43	00	0.00	0.346
B*13	03	4.28	04	3.03	0.695	B*49	00	0.00	02	1.51	0.544
B*14	08	11.43	12	9.09	0.625	B*50	01	1.43	03	2.27	1.000
B*15	16	22.85	24	18.18	0.460	B*51	16	22.85	19	14.39	0.170
B*18	11	15.71	14	10.61	0.369	B*52	02	2.86	05	3.79	1.000
B*27	00	0.00	04	3.03	0.300	B*53	06	8.57	08	6.06	0.564
B*35	14	20.0	30	22.73	0.722	B*54	00	0.00	00	0.00	1.000
B*37	02	2.86	03	2.27	1.000	B*55	02	2.86	01	0.76	0.276
B*38	02	2.86	07	5.30	0.721	B*56	00	0.00	01	0.76	1.000
B*39	06	8.57	09	6.82	0.778	B*57	03	4.28	07	5.30	1.000
B*40	02	2.86	21	15.91	0.014	B*58	02	2.86	10	7.57	0.223
B*41	00	0.00	02	1.51	0.544	B*59	00	0.00	00	0.00	1.000
B*42	03	4.28	03	2.27	0.419	B*73	00	0.00	00	0.00	1.000
B*44	09	12.86	26	19.70	0.247	B*78	00	0.00	00	0.00	1.000
B*45	02	2.86	08	6.06	0.499	B*81	03	4.28	02	1.51	0.343
C*01	02	2.86	06	4.54	0.716	C*08	09	12.85	16	12.12	1.000
C*02	04	5.71	14	10.61	0.306	C*12	08	11.43	23	17.42	0.309
C*03	17	24.28	35	26.51	0.865	C*14	04	5.71	04	3.03	0.452
C*04	24	34.28	38	28.79	0.427	C*15	10	14.28	10	7.57	0.142
C*05	03	4.28	09	6.82	0.549	C*16	09	12.86	12	9.09	0.469
C*06	09	12.85	27	20.45	0.246	C*17	04	5.71	04	3.03	0.452
C*07	35	50.00	64	48.48	0.883	C*18	02	2.86	02	1.51	0.610
DRB1*01	11	15.71	26	19.70	0.568	DRB1*11	15	21.43	40	30.30	0.188
DRB1*03	20	28.57	21	15.91	0.035	DRB1*12	02	2.86	02	1.51	0.610
DRB1*04	11	15.71	26	19.70	0.568	DRB1*13	26	37.14	39	29.54	0.273
DRB1*07	12	17.14	21	15.90	0.843	DRB1*14	05	7.14	14	10.61	0.613
DRB1*08	07	10.00	13	9.85	1.000	DRB1*15	17	24.28	39	29.54	0.509
DRB1*09	04	5.71	02	1.51	0.185	DRB1*16	09	12.86	13	9.85	0.635
DRB1*10	01	1.43	08	6.06	0.167						
DQB1*02	30	42.85	37	28.03	0.048	DQB1*05	30	42.85	62	46.97	0.656
DQB1*03	36	51.43	82	62.12	0.177	DQB1*06	37	52.85	71	53.79	1.000
DQB1*04	07	10.00	12	9.09	0.805						

N: number of individuals, n: number of alleles (2n); %: allele frequency, p: Fisher's exact test p ≤ 0.05.

Additional file 2.2. HLA-A*, B*, C*, DRB1* and DQB1* alleles frequencies in 88 BB leprosy and 114 BT and BL leprosy patients controls.

HLA allele	BB leprosy (N=88)		BT+BL (N=114)		p	HLA allele	BB leprosy (N=88)		BT+BL (N=114)		p
	n	Fa (%)	n	Fa (%)			n	Fa (%)	n	Fa (%)	
A*01	17	19.31	16	14.03	0.341	A*31	07	7.95	06	5.26	0.565
A*02	44	50.00	63	55.26	0.479	A*32	04	4.54	07	6.14	0.759
A*03	21	23.86	29	25.44	0.870	A*33	03	3.41	09	7.89	0.236
A*11	14	15.90	08	7.02	0.066	A*34	02	2.27	00	0.00	0.188
A*23	04	4.54	10	8.77	0.277	A*36	00	0.00	02	1.75	0.505
A*24	19	21.59	21	18.42	0.597	A*66	00	0.00	02	1.75	0.505
A*25	01	1.14	02	1.75	1.000	A*68	13	14.77	12	10.52	0.394
A*26	10	11.36	09	7.89	0.465	A*69	00	0.00	00	0.00	1.000
A*29	05	5.68	11	9.65	0.431	A*74	01	1.14	04	3.51	0.389
A*30	11	12.50	16	14.03	0.836	A*80	00	0.00	01	0.88	1.000
B*07	13	14.77	25	21.93	0.209	B*47	01	1.14	01	0.88	1.000
B*08	12	13.64	13	11.40	0.670	B*48	00	0.00	01	0.88	1.000
B*13	02	2.27	05	4.38	0.701	B*49	00	0.00	02	1.75	0.505
B*14	10	11.36	10	0.88	0.636	B*50	01	1.14	03	2.63	0.633
B*15	13	14.77	27	23.68	0.154	B*51	12	13.64	23	20.17	0.263
B*18	10	11.36	15	13.16	0.830	B*52	05	5.68	02	1.75	0.243
B*27	04	4.54	00	0.00	0.094	B*53	04	4.54	10	8.77	0.277
B*35	21	23.86	23	20.17	0.606	B*54	00	0.00	00	0.00	1.000
B*37	03	3.41	02	1.75	0.654	B*55	01	1.14	02	1.75	1.000
B*38	05	5.68	04	3.51	0.507	B*56	01	1.14	00	0.00	1.000
B*39	04	4.54	11	9.65	0.189	B*57	05	5.68	05	4.38	0.749
B*40	13	14.77	10	8.77	0.376	B*58	10	11.36	02	1.75	0.012
B*41	02	2.27	00	0.00	0.188	B*59	00	0.00	00	0.00	1.000
B*42	03	3.41	03	2.63	1.000	B*73	00	0.00	00	0.00	1.000
B*44	16	18.18	19	16.67	0.852	B*78	00	0.00	00	0.00	1.000
B*45	04	4.54	06	5.26	1.000	B*81	01	1.14	04	3.51	0.389
C*01	05	5.68	03	2.63	0.299	C*08	12	13.64	13	11.40	0.670
C*02	07	7.95	11	9.64	0.805	C*12	19	21.59	12	10.53	0.033
C*03	20	22.73	32	28.07	0.420	C*14	00	0.00	08	7.02	0.070
C*04	25	28.41	37	32.45	0.644	C*15	08	9.09	12	10.53	0.815
C*05	05	5.68	07	6.14	1.000	C*16	07	7.95	14	12.28	0.360
C*06	21	23.86	15	13.16	0.063	C*17	04	4.54	04	3.51	0.730
C*07	41	46.59	58	50.88	0.572	C*18	02	2.27	02	1.75	1.000
DRB1*01	14	15.91	23	20.17	0.468	DRB1*11	26	29.54	29	25.44	0.527
DRB1*03	17	19.32	24	21.05	0.860	DRB1*12	01	1.14	03	2.63	0.633
DRB1*04	18	20.45	19	16.67	0.590	DRB1*13	25	28.41	40	35.09	0.363
DRB1*07	16	18.18	17	14.91	0.568	DRB1*14	10	11.36	09	7.89	0.469
DRB1*08	06	6.82	14	12.28	0.239	DRB1*15	26	29.54	30	26.31	0.637
DRB1*09	01	1.14	05	4.38	0.235	DRB1*16	10	11.36	12	10.53	1.000
DRB1*10	06	6.82	03	2.63	0.181						
DQB1*02	29	32.95	38	33.33	1.000	DQB1*05	41	46.59	51	44.74	0.886
DQB1*03	54	61.36	64	56.14	0.474	DQB1*06	45	51.14	63	55.26	0.572
DQB1*04	07	7.95	12	10.53	0.630						

N: number of individuals, n: number of alleles (2n); %: allele frequency, p: Fisher's exact test $p \leq 0.05$.

Additional file 2.3. HLA-A*, B*, C*, DRB1* and DQB1* alleles frequencies in 44 BL leprosy and 158 BT and BB leprosy patients controls.

HLA allele	BL leprosy (N=44)		BT+BB (N=158)		p	HLA allele	BL leprosy (N=44)		BT+BB (N=158)		p
	n	Fa (%)	n	Fa (%)			n	Fa (%)	n	Fa (%)	
A*01	03	6.82	30	18.99	0.064	A*31	02	4.54	11	6.96	0.737
A*02	26	59.09	81	61.36	0.396	A*32	04	9.09	07	4.43	0.259
A*03	10	22.73	40	30.30	0.844	A*33	01	2.27	11	6.96	0.469
A*11	03	6.82	19	14.40	0.420	A*34	00	0.00	02	1.26	1.000
A*23	06	13.64	08	6.06	0.084	A*36	01	2.27	01	0.63	0.389
A*24	08	18.18	32	20.25	0.833	A*66	00	0.00	02	1.26	1.000
A*25	00	0.00	03	1.90	1.000	A*68	04	9.09	21	13.29	0.607
A*26	04	9.09	15	9.50	1.000	A*69	00	0.00	00	0.00	1.000
A*29	07	15.91	09	5.70	0.051	A*74	02	4.54	03	1.90	0.298
A*30	06	13.64	21	13.29	1.000	A*80	01	2.27	00	0.00	0.217
B*07	10	22.73	28	17.72	0.513	B*47	00	0.00	02	1.26	1.000
B*08	03	6.82	22	13.92	0.300	B*48	00	0.00	01	0.63	1.000
B*13	02	4.54	05	3.16	0.647	B*49	02	4.54	00	0.00	0.046
B*14	02	4.54	18	11.39	0.256	B*50	02	4.54	02	1.26	0.207
B*15	11	25.00	29	18.35	0.392	B*51	07	15.91	28	17.72	1.000
B*18	04	9.09	21	13.29	0.607	B*52	00	0.00	07	4.43	0.350
B*27	00	0.00	04	2.53	0.578	B*53	04	9.09	10	6.33	0.510
B*35	09	20.45	35	22.15	1.000	B*54	00	0.00	00	0.00	1.000
B*37	00	0.00	05	3.16	0.587	B*55	00	0.00	03	1.90	1.000
B*38	02	4.54	07	4.43	1.000	B*56	00	0.00	01	0.63	1.000
B*39	05	11.36	10	6.33	0.326	B*57	02	4.54	08	5.06	1.000
B*40	08	18.18	15	9.49	0.114	B*58	00	0.00	12	7.59	0.072
B*41	00	0.00	02	1.26	1.000	B*59	00	0.00	00	0.00	1.000
B*42	00	0.00	06	3.80	0.343	B*73	00	0.00	00	0.00	1.000
B*44	10	22.73	25	18.82	0.366	B*78	00	0.00	00	0.00	1.000
B*45	04	9.09	06	3.80	0.229	B*81	01	2.27	04	2.53	1.000
C*01	01	2.27	07	4.43	1.000	C*08	04	9.09	21	13.29	0.607
C*02	07	15.91	11	6.96	0.076	C*12	04	9.09	27	17.09	0.241
C*03	15	34.09	37	23.42	0.173	C*14	04	9.09	04	2.53	0.070
C*04	13	29.54	49	31.01	1.000	C*15	02	4.54	18	11.39	0.256
C*05	04	9.09	08	6.06	0.297	C*16	05	11.36	16	10.13	0.783
C*06	06	13.64	30	18.99	0.507	C*17	00	0.00	08	6.06	0.204
C*07	23	52.27	76	48.10	0.733	C*18	00	0.00	04	2.53	0.578
DRB1*01	12	27.27	25	18.82	0.120	DRB1*11	14	31.82	41	25.95	0.448
DRB1*03	04	9.09	37	23.41	0.044	DRB1*12	01	2.27	03	1.90	1.000
DRB1*04	08	18.18	29	18.35	1.000	DRB1*13	14	31.82	51	32.28	1.000
DRB1*07	05	11.36	28	17.72	0.365	DRB1*14	04	9.09	15	9.49	1.000
DRB1*08	07	15.91	13	8.23	0.153	DRB1*15	13	29.54	43	27.21	0.849
DRB1*09	01	2.27	05	3.16	1.000	DRB1*16	03	6.82	19	12.02	0.420
DRB1*10	02	4.54	07	4.43	1.000						
DQB1*02	8	18.18	59	37.34	0.020	DQB1*05	21	47.73	71	44.94	0.864
DQB1*03	28	63.64	90	56.96	0.490	DQB1*06	26	59.09	82	51.90	0.494
DQB1*04	5	11.36	14	8.86	0.570						

N: number of individuals, n: number of alleles (2n); Fa: allele frequency, p: Fisher's exact test $p \leq 0.05$.