

Scheme 1. MHC Class I allele frequencies for groups.

V-SAT			non-V-SAT		Controls	
HLA-A		AF		AF		AF
	A*02	0.2307	A*02	0.2500	A*02	0.2486
	A*11	0.1923	A*03	0.1428	A*24	0.1409
	A*24	0.1538	A*24	0.1428	A*03	0.1229
	A*03	0.1153	A*01	0.1071	A*01	0.1008
	A*01	0.0769	A*11	0.1071	A*11	0.0718
	A*26	0.0769	A*68	0.0714	A*26	0.0566
	A*29	0.0384	A*25	0.0357	A*32	0.0470
	A*30	0.0384	A*26	0.0357	A*23	0.0442
	A*32	0.0384	A*31	0.0357	A*30	0.0442
	A*68	0.0384	A*32	0.0357	A*68	0.0359
			A*69	0.0357		
HLA-B						
	B*35	0.4230	B*35	0.5000	B*35	0.1989
	B*18	0.1153	B*51	0.1071	B*51	0.1229
	B*38	0.0769	B*07	0.0714	B*44	0.0760
	B*07	0.0384	B*18	0.0714	B*07	0.0691
	B*15	0.0384	B*27	0.0714	B*49	0.0580
	B*40	0.0384	B*38	0.0357	B*18	0.0511
	B*44	0.0384	B*40	0.0357	B*13	0.0428
	B*45	0.0384	B*50	0.0357	B*38	0.0401
	B*47	0.0384	B*56	0.0357	B*15	0.0373
	B*48	0.0384	B*73	0.0357	B*40	0.0345
	B*51	0.0384				
	B*55	0.0384				
	B*58	0.0384				
HLA-C						
	C*04	0.3461	C*04	0.5000	C*07	0.2182
	C*07	0.2307	C*12	0.1071	C*04	0.2030
	C*12	0.1538	C*02	0.0714	C*12	0.1298
	C*08	0.0769	C*07	0.0714	C*06	0.1022
	C*01	0.0384	C*15	0.0714	C*15	0.0677
	C*03	0.0384	C*01	0.0357	C*03	0.0483
	C*05	0.0384	C*03	0.0357	C*01	0.0414
	C*06	0.0384	C*06	0.0357	C*16	0.0414
	C*14	0.0384	C*14	0.0357	C*14	0.0401
			C*16	0.0357	C*02	0.0345

AF: allele frequency. The frequencies of HLA-A*11, HLA-B*35, and HLA-C*04 alleles are shown in bold.

Scheme 2. Slatkin's implementation of EW homozygosity test of neutrality analysis.

	Obs	Exp	Variance	Fnd	p
Patients					
A	0.1365	0.1696	0.0024	-0.6749	0.2557
B	0.2407	0.1204	0.0010	3.8743	0.9923
C	0.2305	0.1865	0.0032	0.7811	0.8316
DRB1	0.1427	0.1696	0.0024	-0.5490	0.3248
DQB1	0.3169	0.4460	0.0198	-0.9187	0.1754
Controls					
A	0.1243	0.2423	0.0089	-1.2489	0.0202
B	0.0837	0.1534	0.0030	-1.2631	0.0160
C	0.1312	0.2887	0.0128	-1.3916	0.0040
DRB1	0.1197	0.3079	0.0142	-1.5804	0.0010
DQB1	0.2723	0.5963	0.0371	-1.6827	0.0099

Obs: Observed F, Exp: Expected F, Variance: Variance in F, Fnd: Normalized deviate of F.

Scheme 3. Weinberg Equilibrium and Global Linkage Disequilibrium.

Patients	A	B	C	DR	DQ	Controls	A	B	C	DR	DQ
A	1.0000	1.0000	1.0000	1.0000	0.9335	A	0.0167	0.0001	0.0000	0.4381	0.9721
B	1.0000	1.0000	0.9999	1.0000	0.9992	B	0.0099	0.0000	0.0000	0.0000	0.0000
C	1.0000	0.1287	1.0000	1.0000	0.9998	C	0.0099	0.0099	0.0026	0.0000	0.0007
DR	1.0000	1.0000	1.0000	1.0000	0.0097	DR	0.0693	0.0099	0.0099	0.0005	0.0000
DQ	0.2970	0.7129	0.9505	0.0099	1.0000	DQ	0.7228	0.0099	0.0099	0.0099	0.0008

The diagonal contains the p values for the Hardy–Weinberg equilibrium test, the upper triangular matrix those for the parametric global LD test, and the lower triangular matrix those for the permutation non-parametric global LD test.