

Table 2. Comparison of HLA-A, -B, and -C allele frequencies in the Slovak and the Czech populations

HLA-A	g I n=109	g II n=617	g III n=115	HLA-B	g I n=109	g II n=616	g III n=116	HLA-C	g I n=109	g II n=248	g III n=268
A0101-2	0.1468	0,1478	0,1453	B0702-8	0.1009	0,0905	0,1046	Cw0101-3	0.0596	0,0342	0,0596
A0201-22	0.2798	0,3193	0,2960	B0801-4	0.0872	0,0871	0,1046	Cw02021-3	0.0550	0,0640	0,0537
A0301-3	0.1376	0,1344	0,1203	B1301-4	0.0459	0,0510	0,0351	Cw0302-9	0.0872	0,0780	0,1033
A2301	0.0321	0,0240	0,0309	B1401-2	0.0183	0,0146	0,0198	Cw0401-6	0.1560	0,1550	0,1470
A2402-14	0.0917	0,0947	0,0675	B1501-37	0.0505	0,0550	0,0566	Cw0501-2	0.0413	0,0714	0,0458
A2501-2	0.0367	0,0390	0,0399	B1801-5	0.0780	0,0888	0,0856	Cw0602,4	0.0734	0,0672	0,1064
A2601-8	0.0550	0,0615	0,0582	B2701-11	0.0596	0,0648	0,0396	Cw0701-10	0.2661	0,1318	0,2866
A1101-4	0.0596	0,0664	0,0582	B3501-21	0.0826	0,1187	0,0856	Cw0801-4	0.0321	0,0015	0,0342
A2901-3	0.0138	0,0132	0,0044	B3701-2	0.0229	0,0077	0,0218	Cw1202-6	0.1468	0,0000	0,0952
A3001-4	0.0275	0,0170	0,0220	B3801-2	0.0459	0,0350	0,0441	Cw1301	0.0000	0,0000	0,0000
A31012	0.0138	0,0162	0,0175	B3901-12	0.0138	0,0131	0,0087	Cw1402-3	0.0000	0,0000	0,0207
A3201-2	0.0321	0,0326	0,0399	B4001-10	0.0321	0,0478	0,0134	Cw1502-6	0.0138	0,0000	0,0131
A3301-3	0.0046	0,0054	0,0220	B4101-2	0.0138	0,0046	0,0087	Cw1601-4	0.0183	0,0000	0,0284
A3401-2	0.0092	0,0008	0,0000	B4201-2	0.0046	0,0000	0,0000	Cw1701-2	0.0229	0,0000	0,0094
A3601	0.0092	0,0000	0,0000	B4402-10	0.1101	0,1057	0,1094	Cw1801-2	0.0092	0,0000	0,0000
A4301	0.0000	0,0000	0,0000	B4501	0.0046	0,0031	0,0087	Cx	0.0183	0,6209	
A6601-3	0.0092	0,0008	0,0000	B4601	0.0000	0,0000	0,0000				
A6801-3	0.0138	0,0000	0,0000	B4701-2	0.0092	0,0031	0,0043				
A6901	0.0092	0,0000	0,0000	B4801-3	0.0000	0,0000	0,0087				
A7401-3	0.0138	0,0000	0,0044	B4901	0.0138	0,0108	0,0043				
A8001	0.0046	0,0000	0,0000	B5001-2	0.0183	0,0077	0,0218				
Ax	0.0000	0,0558		B5101-9	0.0505	0,0438	0,0577				
				B5201	0.0092	0,0092	0,0087				
				B5301-2	0.0046	0,0000	0,0130				
				B5401	0.0046	0,0000	0,0000				
				B5505	0.0138	0,0077	0,0087				
				B5601-3	0.0183	0,0077	0,0130				
				B5701-4	0.0275	0,0139	0,0174				
				B5801-2	0.0138	0,0007	0,0130				
				B5901	0.0000	0,0000	0,0000				
				B6701	0.0046	0,0008	0,0000				
				B7301	0.0000	0,0000	0,0000				
				B7801-2	0.0046	0,0000	0,0000				
				B8101	0.0000	0,0000	0,0000				
				B8201	0.0046	0,0000	0,0000				
				Bx	0.0321	0,0575					

g I - HLA-A, -B, and -C allele frequencies in the Slovak population

g II - calculated HLA-A, -B and -Cw gene frequencies in the Slovak population

g III - HLA-A, -B, and -C allele frequencies in the Czech population

well as homozygous alleles, because no family studies have been realized.

The allele frequencies found in our study were compared to those in the Czech population (Drabek et al., 1998; Ivašková et al., 1998) (Table 2). No statistically significant differences were found.

The establishment of frequencies of HLA alleles is important for the general population genetics, and especially for studies of associations between the HLA system and diseases. The introduced DNA-typing methods are of importance for the selection of suitable donor-recipient pairs in organ and tissue transplantations.

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