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FOR THE RECORD

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HLA-DQA1 and Polymarker Locus Allele Frequencies in the Northeast Region of Colombia (Departments of Santander, Norte de Santander, Boyaca and Casanare)

POPULATION: Departments of Santander, Boyaca, Norte de Santander and Casanare, Colombia

KEYWORDS: forensic science, DNA typing, HLA-DQA1, LDLR, GYPA, HBGG, D7S8, GC, population genetics, Colombia

Whole blood samples were obtained in the genetics laboratory of the UIS (Universidad Industrial of Santander) in collaboration with ICBF (Instituto Colombiano de Bienestar Familiar) from unrelated Colombian donors. Genomic DNA was extracted using the salting out procedure. The samples were typed for HLA-DQA1/PM loci by using the Amplitype PM and DQA1 kit following manufacturer's instructions (PE-Biosystems, Foster City, CA). Statistical analysis was performed as previously reported (1). The complete data set is available to any interested researcher upon request from Oscar Garcia, Area de Laboratorio Ertzaintza, Av. Montevideo 3, 48002-Bilbao, Spain.

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TABLE 1—*Distribution of HLA-DQA1 alleles in the departments of Santander, Boyaca, Norte de Santander and Casanare, Colombia.*

HLA-DQA1	Santander	Boyaca	Norte de Santander	Casanare
N	1313	587	338	94
Alle				
1.1	0.135	0.101	0.111	0.1127
1.2	0.117	0.116	0.114	0.149
1.3	0.063	0.054	0.046	0.069
2	0.101	0.089	0.143	0.080
3	0.255	0.290	0.280	0.277
4	0.328	0.348	0.306	0.314
H	0.778	0.739	0.778	0.734
PD	0.920	0.912	0.918	0.909
CE	0.559	0.492	0.559	0.483
P*	0.974	0.121	0.422	0.428
P**	0.965	0.062	0.578	0.284

H (observed heterozygosity, PD (Power of discrimination), CE (a priori chance of exclusion, P* (Hardy-Weinberg equilibrium, chi square test), P** (Hardy-Weinberg equilibrium, exact test based on 2000 shufflings).

TABLE 2—*Distribution of Amplitype PM alleles in the department of Santander, Colombia.*

		LDLR		GYPA		HBGG			D7S8		GC		
	N	A	B	A	B	A	B	C	A	B	A	B	C
Santander	202	0.527	0.473	0.636	0.364	0.416	0.562	0.022	0.616	0.384	0.215	0.252	0.532
H		0.460		0.549			0.525		0.450			0.604	
PD		0.641		0.559			0.646		0.619			0.775	
CE		0.155		0.235			0.210		0.148			0.296	
P*		0.316		0.090			0.835		0.538			0.589	
P**		0.328		0.095			0.850		0.561			0.549	

H (observed heterozygosity), PD (Power of discrimination), CE (a priori chance of exclusion), P* (Hardy-Weinberg equilibrium, Chi square test), P** (Hardy-Weinberg equilibrium, exact test based on 2000 shufflings).

TABLE 3—*Distribution of Amplitype PM alleles in the department of Boyaca, Colombia.*

		LDLR		GYPA		HBGG			D7S8		GC		
	N	A	B	A	B	A	B	C	A	B	A	B	C
Boyaca	71	0.514	0.486	0.613	0.387	0.338	0.641	0.021	0.725	0.275	0.225	0.225	0.549
H		0.521		0.577			0.507		0.465			0.648	
PD		0.613		0.552			0.618		0.539			0.761	
CE		0.207		0.265			0.194		0.158			0.352	
P*		0.826		0.084			0.816		0.245			0.307	
P**		0.814		0.088			0.905		0.239			0.357	

H (observed heterozygosity), PD (Power of discrimination), CE (a priori chance of exclusion), P* (Hardy-Weinberg equilibrium, Chi square test), P** (Hardy-Weinberg equilibrium, exact test based on 2000 shufflings).