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FOR THE RECORD

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HLA-DQA1 and Polymarker Allele Frequencies in Peru

POPULATION: Peru

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

Whole blood samples were obtained after informed consent from 100 unrelated Peruvian donors. Genomic DNA was extracted by a standard phenol/chloroform extraction procedure. The extracted DNA was quantitated by slot-blot hybridization using the Quantiblot^{R} Human DNA Quantitation kit (PE-Biosystems, Foster City, CA). 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). Exact tests were performed by using the computer program GDA for checking the Hardy-Weinberg expectations (1). Data were analyzed by PowerStats (2). The complete data set is available to any interested researcher upon request from Oscar Garcia, Ph.D., Area de Laboratorio Ertzaintza, Av. Montevideo 3, 48002–Bilbao, Spain.

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TABLE 1—*Observed allele frequencies for HLA-DQA1/PM loci in Peru.*

	HLA-DQA1	
$N = 100$	Allele	Frequency
	1.1	0.0450
	1.2	0.0550
	1.3	0.0300
	2	0.0500
	3	0.4250
	4.1	0.2350
	4.2/4.3	0.1600
H	0.7600	
PD	0.8849	
CE	0.5270	
P*	0.4275	
P**	0.4965	

	LDLR		GYPA		HBGG			D7S8		GC		
N	A	B	A	B	A	B	C	A	B	A	B	C
100	0.5850	0.4150	0.6900	0.3100	0.2700	0.7150	0.0150	0.6050	0.3950	0.1800	0.2500	0.5700
H	0.4700		0.4600			0.3400		0.4500			0.6300	
PD	0.6242		0.5704			0.5888		0.6242			0.7500	
CE	0.1626		0.1548			0.0814		0.1474			0.3284	
P*	0.8265		0.4895			0.1465		0.6700			0.5390	
P**	0.8215		0.6415			0.1095		0.7220			0.7705	

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).