## For the Record

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## Distribution of HLA-DQA1 and Amplitype PM Locus Alleles in a Turkish Population Sample

Population: Central Anatolia Region, Turkey

**Keywords:** forensic science, DNA typing, population genetics, polymerase chain reaction, DQA1, LDLR, GYPA, HBGG, D7S8, GC, Central Anatolia Region, Turkey

The samples were collected from unrelated individuals randomly selected from criminal cases. The DNA was extracted from fresh blood leucocytes, bloodstains, and single hairs by Chelex 100 method (1).

The quantity of DNA was determined (2) by using the Quantiblot<sup>®</sup> Human DNA Quantitation Kit (Perkin Elmer, Norwalk, CT).

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<sup>3</sup> Ankara University, Faculty of Agriculture, Biometri-Genetic Unit, 06110 Ankara, Turkey. The samples were typed for HLA-DQA1/PM loci by using the Amplitype PM and DQA1 kit as per the manufacturer's instructions (3).

Exact tests were performed by using the computer program GDA (Genetic Data Analysis, Lewis PO, and Zaykin D) for checking the Hardy-Weinberg expectations. Data were analyzed by The Promega Software, POWERSTATS.

The dataset can be accessed at http://w3.gazi.edu.tr/~leyacik

## References

- Walsh PS, Metzger DA, Higuchi R. Chelex 100 as a medium for the simple extraction of DNA for PCR-based typing from forensic materials. BioTechniques 1991;10(4):506–13.
- Waye JS, Presley LA, Budowle B, Shutler GG, Fourney RM. A simple and sensitive method for quantifying human genomic DNA in forensic specimen extracts. BioTechniques 1989;7(8):852–55.
- 3. Perkin-Elmer Corp., Foster City, CA.

					HLA-DQA1							
			N = 104		Allele			Frequency				
						1.1		0.106				
						1.2 1.3		0.125 0.135				
						1.5		0.133				
						2 3		0.172				
					4			0.264				
						Но		0.808				
						He		0.823				
						P*		0.606				
						P†		0.188				
						PD		0.933				
						PEP MP		0.613 0.067				
						PIC		0.007				
						TPI		2.60				
N = 129	LDLR		GYPA		HBGG			D7S8		GC		
Allele	А	В	А	В	А	В	С	A	В	А	В	С
Frequency	0.295	0.705	0.682	0.318	0.488	0.508	0.004	0.601	0.399	0.333	0.143	0.523
Но	0.357		0.450		0.550			0.566		0.628		
He	0.420		0.416		0.506			0.481		0.598		
P*	0.069		0.854		0.349			0.066		0.491		
$P^{\dagger}$	0.133		0.840		0.344			0.068		0.199		
PD	0.581		0.580		0.604			0.565		0.736		
PEP	0.090		0.147		0.236			0.252		0.326		
MP	0.416		0.418		0.394			0.429		0.267		
PIC	0.33		0.34		0.38			0.36		0.52		

Ho: observed heterozygosity, He: expected heterozygosity, P\*: heterozygosity, P†: exact test, PD: power of discrimination, PEP: excluding probability of paternity, PIC: polymorphism information content, MP: matching probability, TPI: typical paternity index.

 $\chi^2 \mid_{df}$  based on unbiased estimate with 3200 shufflings.

† based on 3200 shufflings.