

**Determination of the Allele and Genotype Frequencies of the Loci:  
HLADQA1 LDLR, GYPA, HBGG, D7S8 and GC  
in a Population of Pakistanis Living in Dubai**

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Several genetic loci amenable to PCR could be analyzed for characterizing casework evidentiary samples. Forensic application of any genetic marker requires the analysis of allele frequencies for the reference population.

For this study blood samples were collected from 121 unrelated individual Pakistanis living in Dubai. DNA was extracted using the phenol/chloroform method.

The distribution of six genetic loci were studied using the AmpliType™ PM kit (Perkin Elmer) and the AmpliType™ HLADQA1 Forensic DNA Amplification and Typing Kit (Perkin Elmer) based on reverse dot blot format and sequence specific oligonucleotide probes. The amplification and typing was performed according to the manufacturer protocol.

Data were subjected to statistical analysis such as allele distribution, heterozygosity, discrimination power, exclusion power and the Hardy-Weinberg equilibrium. Data were compared to other populations. Results will be presented.