

FOR THE RECORD

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Distribution of D3S1358, D21S11, FGA, vWA Alleles in a Central Italian Population Sample

POPULATION: Central Italian (from Lazio) $N = 364$ for D3S1358, D21S11, FGA, vWA.

KEYWORDS: forensic science, short tandem repeats, population genetics, D3S1358, D21S11, FGA, vWA, PCR, Hardy-Weinberg expectation, central Italy, Lazio

Blood samples were obtained from selected and unrelated individuals. DNA was extracted with the standard Chelex[®] 100 (Bio-Rad, Hercules, CA) extraction procedure (1); DNA samples were amplified in a DNA Gene Amp 9700 (Applied Biosystems, Foster City, CA) using 10 ng of template DNA. The amplified products were detected using the Abi Prism 310 Genetic Analyzer (Applied Biosystems, Foster City, CA).

Alleles were classified according to the recommendations of the ISFH (2); data were analyzed for the Hardy Weinberg Expectation by calculating of the expected homozygote/heterozygote frequencies, the likelihood ratio test and the χ^2 test.

The complete dataset can be accessed at <http://www.dimimp.uniba.it/medlegal/emogen/freq.htm>

References

1. Walsh PS, Metzger DA, Higuchi R. Chelex 100 as a medium for simple extraction of DNA for PCR-based typing from forensic material. *Biotechniques* 1991;10:506–13.
2. DNA recommendations report concerning further recommendations of the DNA Commission of the ISFH regarding PCR-based polymorphism in STR (short tandem repeat) system. *Int J Legal Med* 1994;107:159–60.

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TABLE 1—*Allele distribution in a General Italian population sample.*

Allele	D3S1358	D21S11	FGA	vWA
11				
12				
13				0.0027
14	0.0686			0.0851
15	0.2831			0.1099
16	0.2363			0.2748
17	0.2170			0.2363
18	0.1703		0.0192	0.1814
19	0.0247		0.0824	0.0879
20			0.1292	0.0192
21			0.1813	0.0027
22			0.1292	
23			0.1950	
24			0.1428	
24.2		0.0027		
25			0.0769	
26			0.0358	
26.2				
27		0.0137		
28		0.1731	0.0055	
28.2		0.0027		
29		0.2226	0.0027	
29.2		0.0054		
30		0.2502		
30.2		0.0741		
31		0.0384		
31.2		0.0991		
32		0.0082		
32.2		0.0632		
33		0.0385		
33.2		0.0027		
34		0.0054		
34.2				
35				
35.2				
36				

TABLE 2—*Statistical analysis.*

	D3S1358	D21S11	FGA	vWA
DF	7	20	13	10
χ^2	0.268	0.893	0.344	0.403
Heterozyg.	0.693	0.863	0.841	0.769
Exp. heterozyg.	0.780	0.840	0.860	0.810
PD	0.91999	0.94946	0.96184	0.93231