

FOR THE RECORD

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Distribution of D5S818, D7S820, D8S1179, D13S317, D18S51 Alleles in a Central Italian Population Sample

POPULATION: Central Italian (from Lazio); $N = 364$ for D5S818, D7S820, D8S1179, D13S317, D18S51

KEYWORDS: forensic science, short tandem repeats, population genetics, D5S818, D7S820, D8S1179, D13S317, D18S51, 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 by 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.

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

References

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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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Allele	D5S818	D7S820	D8S1179	D13S317	D18S51
6					
7	0.0027	0.0385			
8	0.0082	0.1620	0.0164	0.1098	0.0027
9	0.0412	0.1098	0.0054	0.0934	
10	0.0687	0.2859	0.0824	0.0521	0.0109
10.2					
11	0.3078	0.2116	0.0851	0.3106	0.0137
12	0.3132	0.1813	0.1181	0.3188	0.1677
13	0.2253	0.0109	0.3134	0.0989	0.1652
13.2					0.0027
14	0.0302		0.1842	0.0137	0.1429
14.2					0.0027
15	0.0027		0.1539	0.0027	0.1731
16			0.0384		0.1181
17					0.0796
18					0.0714
19			0.0027		0.0302
20					0.0137
21					0.0054
22					
23					
24					
25					
26					
Statistical analysis					
DF	9	7	11	7	21
χ^2	0.549	0.361	0.445	0.309	0.696
Heterozyg.	0.764	0.781	0.797	0.819	0.869
Exp. heterozyg.	0.750	0.800	0.820	0.770	0.870
PD	0.89283	0.927	0.93648	0.90206	0.96649