## FOR THE RECORD

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## Allele Frequencies for the PowerPlex<sup>™</sup> 16 STR Loci in an Albanian Population Sample from Northern Italy

Population: Albanians residing in North West Italy (Piedmont)

**KEYWORDS:** forensic science, DNA typing, population genetics, short tandem repeats, polymerase chain reaction, D3S1358, TH01, D21S11, D18S51, PENTA E, D5S818, D13S317, D7S820, D16S539, CSF1PO, PENTA D, vWA, D8S1179, TPOX, FGA, Italy, Albanians

In recent years Italy experienced a strong migration flow from Albania: a STR reference database, to be used in forensic casework, was created for the Albanian population. Blood/saliva samples were obtained from 100 unrelated Albanians residing in Piedmont (North West Italy). Genomic DNA was isolated from blood by the Chelex method (1) and from saliva by standard organic phenol/chlorophorm extraction. PCR amplification was performed according to the manufacturer's instructions, using the GenePrint<sup>®</sup>

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## References

- 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.
- Raymond M, Rousset F. GENEPOP (version 1.2): population genetics software for exact tests and ecumenicism. J Heredity 1995;86:248–9.

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Allele	D3S1358	TH01	D21S11	D18S51	Penta E	D5S818	D13S317	D7S820	D16S539	CSF1PO	Penta D	vWA	D8S1179	TPOX	FGA
5 6 7 8 9 9.3 10 11		.295 .135 .090 .255 .215 .010		.005 .005	.065 .155 .040 .030 .115 .090	.015 .065 .370	.120 .075 .120 .320	.005 .215 .130 .300 .195	.025 .100 .055 .380	.005 .015 .240 .360	.025 .220 .140 .155		.040 .010 .080 .040	.005 .535 .130 .030 .275	
$\begin{array}{c} 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 19\\ 20\\ 21\\ 21.2\\ 22\\ 23\\ 24\\ 24.2\\ 25\\ 26\\ \end{array}$	.060 .335 .250 .145 .180 .030		.005	.100 .160 .200 .165 .160 .065 .065 .020 .020 .030	.165 .120 .065 .025 .035 .020 .020 .020 .025 .030	.395 .150 .005	.255 .080 .025 .005	.140 .015	.300 .110 .030	.300 .060 .015 .005	.110 .250 .070 .020 .005 .005	.090 .095 .200 .265 .245 .085 .020	.110 .340 .215 .135 .020 .010	.025	.025 .070 .130 .115 .005 .150 .160 .195 .010 .110 .025
27 28 29 29.2 30 30.2 31 31.2 32 32.2 33.2 34.2 <i>P</i> *	.282	.517	$\begin{array}{c} .010\\ .170\\ .290\\ .005\\ .150\\ .045\\ .050\\ .110\\ .015\\ .100\\ .045\\ .005\\ .400 \end{array}$	.675	.667	.666	.670	.247	.145	.558	.468	.790	.247	.866	.005

TABLE 1—Observed allele frequencies in the Albanian population (n = 100).

\* Probability value of exact test based on 5000 dememorization steps, 1000 batches and 1000 iterations per batch.