

## FOR THE RECORD

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# Allele Frequencies of Four STR Loci in Eastern Chinese Population

**POPULATION:** Han in Eastern China

**KEYWORDS:** forensic science, DNA typing, short tandem repeats, Eastern Chinese population, population genetics, D5S818, D9S1118, D21S1409, D10S2325

Blood samples or buccal swabs were collected from unrelated individuals living in Jiangsu, Zhejiang Province and Shanghai City after obtaining their informed consent. A Chelex method was used for extracting genomic DNA (1). The volume of PCR is 37.5 µL. PCR was performed in an Eppendorf Mastercycler gradient system. The PCR products were analyzed by non-denaturing polyacrylamide gel electrophoresis and visualized by silver staining (2). Allele designation was established following the recommendations of the DNA commission of the ISFH (3). Genetic data were analyzed using Powerstats program (4). The genotype distribution was analyzed for Hardy-Weinberg equilibrium according to Hou's method (5) and no deviation from Hardy-Weinberg equilibrium was observed.

Table 1 contains the summary of allele frequencies and forensic values for the four STR loci.

The complete dataset is available upon request at e-mail: [yuzhen-gao@suda.edu.cn](mailto:yuzhen-gao@suda.edu.cn).

## References

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[PubMed]

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TABLE 1—*Allele frequencies and forensic statistics for four STR loci in Eastern Chinese population.*

Allele	D5S818 (n = 103)	D9S1118 (n = 101)	D21S1409 (n = 103)	D10S2325 (n = 104)
6	...	...	...	0.025
7	0.015	...	0.383	0.314
8	...	0.144	...	0.029
9	0.073	0.015	0.015	0.074
10	0.223	...	0.141	0.083
11	0.306	0.015	0.447	0.157
12	0.218	0.045	0.015	0.118
13	0.165	0.193	...	0.108
14	...	0.158	...	0.054
15	...	0.054	...	0.029
16	...	0.238	...	0.005
17	...	0.119	...	0.005
18	...	0.020	...	...
PIC	0.740	0.820	0.560	0.820
DP	0.909	0.936	0.801	0.948
CE	0.581	0.720	0.263	0.628
H <sub>o</sub>	0.767	0.851	0.524	0.794

\* PIC: polymorphism information content; DP: power of discrimination; CE: power of exclusion; and H<sub>o</sub>: observed heterozygosity.

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