

## FOR THE RECORD

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## Distributions of Allelic Frequencies and Haplotypes of Two Novel Y-Chromosome STR in a Chinese Population

**POPULATION:** Chinese

**KEYWORDS:** forensic science, DNA typing, DYS531, DYS533, population genetics, Chinese population

Whole blood obtained by venipuncture from 107 unrelated males of the Han ethnic group in Chengdu, China. DNA was extracted using the Chelex method (1). The reaction volume of PCR was 37.5  $\mu$ L, containing 2–4 ng human genome DNA, 200  $\mu$ M each dNTP (Pharmacia, Sweden), 1.5  $\mu$  Taq polymerase (Promega, Madison, WI), 3.75  $\mu$ L 10  $\times$  buffer, Mg<sup>2+</sup> 1.5 mM, 1.6  $\mu$ g/mL BSA, 0.3  $\mu$ M each primer. Amplification reactions were carried out in a Perkin Elmer 9600 (Foster City, CA) with pre-denaturing for 2 min at 94°C, followed by 35 cycles of denaturing for 40 s at 94°C, annealing for 40 s at 58°C and extension for 25 s at 72°C. The PCR products were analyzed by horizontal non-denaturing polyacrylamide gel electrophoresis with discontinuous buffer system and visualized by silver staining (2). Data of population genetics and forensic science were analyzed according to Hou's method (3).

The complete data can be accessed at: <http://www.legalmed.org/dna/dys531.htm>.

TABLE 1—Allelic frequencies and gene diversity of two Y-STR loci in a Chinese population.

Allele	DYS531	DYS533
9	0.0192	
10	0.1442	0.1028
11	0.6154	0.4486
12	0.2115	0.3458
13	0.0096	0.1028
Gene diversity	0.5607	0.6643
Standard error	0.0303	0.0178

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TABLE 2—Haplotypes of for two Y-STR loci in a Chinese population.

No.	Haplotypes	
	Dys531	Dys533
1	10	10
2	10	11
3	10	12
4	10	13
5	11	10
6	11	11
7	11	12
8	11	13
9	12	11
10	12	12
11	13	11

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