## FOR THE RECORD

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## Allele Frequencies for Two New Y-chromosome STR Loci DYS598 and DYS607 in Chinese Han Population (Shanxi Area)

POPULATION: Chinese Han

**KEYWORDS:** forensic science, DYS598, DYS607, Y-STR, Chinese Han population, Shanxi area, DNA typing, short tandem repeats, population genetics, alleles frequency

The whole blood samples of 145 unrelated males of Chinese Han ethnic group who live in Shanxi province, northern of China, were collected and anticoagulant with EDTA. DNA was extracted by the phenol-chloroform method (1). PCR reactions were accomplished in 25 µL reaction mixture, containing 50-100 ng human genome DNA, 200 µM dNTP, 1U Taq polymerase (Sangon, BBI-Canada),  $1 \times$  buffer, 1.5 mM MgCl<sub>2</sub>, and 0.3  $\mu$ M each primer. The sequences of primers are according with GDB (www.gdb.org). The PCR amplifications of the two STR loci were carried out in a T1 Thermocycler (Biometra, German) with pre-denaturing for 3 min at 95°C, 29 cycles of denaturing for 50 s at 94°C, annealing for 50 s at 62°C and extension for 50 s at 72°C. The PCR products were analyzed on a denaturing vertical polyacrylamide gel and visualized by silver staining (2). The alleles were determined by sequencing of PCR products. The nomenclature for the alleles is based on the number of repeat units according to recommendation of the DNA commission of the International Society of Forensic Genetics (3). Statistical analysis were according to Hou's method (4).

The complete dataset can be accessed at http://www.sxmu.edu.cn/ fyxy/zgq/dys598dys607.htm

TABLE 1—Allele frequencies of two STR loci in Chinese population.

DYS598 (N	= 145)	DYS60	7 (N = 145)
Allele	Frequency	Allele	Frequency
8 9 10	0.0276 0.7862 0.1586	12 13 14	0.0276 0.0552 0.2345
11	0.0276	15 16 17 18	0.4827 0.1310 0.0621 0.0069
Gene diversity Standard error	0.3579 0.0320		0.6919 0.0204

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

Haplotype	DYS598	DYS607	
1	8	12	
2	8	14	
3	8	15	
4	9	12	
5	9	13	
6	9	14	
7	9	15	
8	9	16	
9	9		
10			
	10		
	1 2 3 4 5 6 7 8	1 8 2 8 8 3 8 4 9 9 5 9 9 9 9 9 10 9 11 10 12 10 13 10 14 10	1 8 12   2 8 14   3 8 15   4 9 12   5 9 13   6 9 14   7 9 15   8 9 16   9 9 17   10 9 18   11 10 14   12 10 15   13 10 16   14 10 17

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