## FOR THE RECORD

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## Distribution of D9S2150, GATA164F07, and D10S2469 Alleles in a Chinese Population Sample

## **POPULATION:** Chinese (n = 100).

**KEYWORDS:** forensic science, Han in Sichuan, China, short tandem repeats, DNA typing, polymerase chain reaction, population genetics, D9S2150, GATA164F07, D10S2469

One hundred EDTA-blood samples were collected from unrelated healthy individuals of Chinese Han ethnic group in Chengdu of Sichuan. Genomic DNA samples were extracted using Chelex-100 method (1). The allelic variation at three short tandem repeat loci named as D9S2150, GATA164F07, and D10S2469 were analyzed by PCR amplification whose respective conditions can be accessed at Nucleotide Database updated by NCBI (http:// www.ncbi.nlm.nih.gov), however, their annealing temperatures do not totally amount to those recommended by database.

The details of PCR conditions are available to any interested researcher by contacting rechtsme@wcums.edu.cn or visiting our Web site (http://w1.88ko.net/vip/jiangshi/).

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

Allele	Frequency					
	D9S2150 $(n = 100)$	GATA164F07 ( $n = 100$ )	D10S2469 ( <i>n</i> = 100)			
7		0.380				
8		0.070				
9	0.005	0.285				
10	0.045	0.195				
11	0.220	0.070	0.170			
12	0.275		0.280			
13	0.320		0.430			
14	0.13		0.120			
15	0.005					
Total	1.000	1.000	1.000			
HWE*	p > 0.05	p > 0.05	p > 0.05			

\*Test for Hardy-Weinberg equilibrium (HWE).

STR, short tandem repeats.

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TABLE 2—Population genetics and forensic data of three STR loci.

Locus	PIC	DP	$P_{\rm m}$	EP	$H_{\rm o}$	H <sub>e</sub>
D9S2150	0.71	0.890	0.110	0.562	0.78	0.758
GATA164F07	0.68	0.882	0.118	0.444	0.71	0.730
D10S2469	0.64	0.840	0.160	0.413	0.69	0.697

PIC, polymorphism information content; DP, power of discrimination;  $P_{\rm m}$ , probability of match; EP, power of exclusion;  $H_{\rm o}$ , observed heterozygosity;  $H_{\rm e}$ , expected heterozygosity; STR, short tandem repeats.

PCR amplifications were carried out in a GeneAmp PCR System 9600 (Applied Biosystems, Foster City, CA). The PCR products were separated by vertical nondenaturing polyacrylamide gel electrophoresis with 1 × TBE continuous buffer system and visualized by silver staining (2). The amplified products were sequenced by ABI PRISM<sup>TM</sup> 377 Genetic Analyzer (Applied Biosystems) in order to make the right nomenclature. Data of population genetics and forensic science were analyzed by using POWERSTATS program (3). The details of distribution data are described in Tables 1 and 2. The genotype distribution was analyzed for Hardy–Weinberg equilibrium according to Hou's method (4). No deviation from Hardy–Weinberg equilibrium was observed within the three loci.

The complete data set is available to any interested researcher by contacting rechtsme@wcums.edu.cn or visiting our Web sites (http://w1.88ko.net/vip/jiangshi/ or http://legalmed.org/dna/ d9s2150).

## References

 Walsh BS, Petzger DA, Higuchi R. Chelex-100 as medium for simple extraction of DNA for PCR-based typing from forensic material. Biotechniques 1991;10:506–10.

- 2. Allen CR, Graves G, Budowle B. Polymerase chain reaction amplification products separated on rehydratable polyacrylamide gels and stained with silver. Biotechniques 1990;7:736–44.
- 3. http://www.promega.com/geneticidtools/powerstats
- Hou Y, Prinz M, Staak M. Comparison of different tests for deviation from Hardy–Weinberg equilibrium of AMPFLP population data. In: Bar W, Fiori A, Rossi U, editors. Advances in forensic haemogenetics. Berlin: Springer-Verlag; 1994:511–4.

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