

FOR THE RECORD

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Distribution of GATA86C08, GATA158G03, D11S2001 Alleles in Chinese Population Sample

POPULATIONS: Chinese.

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Whole blood samples were obtained from unrelated individuals of Chinese Han ethnic group in Chengdu of China. Genomic DNA was extracted using Chelex method (1). PCR amplification conditions can be accessed at <http://w1.88ko.net/vip/jiangshi/longbing.doc>. The volume of PCR reaction for each locus was 25 μ L. The amplified products were separated by vertical nondenaturing polyacrylamide gel electrophoresis with continuous buffer system and visualized by silver staining (2). Data of population genetics and forensic science were analyzed 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.

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

Locus	PIC	DP	P_m	EP	H_o	H_e
GATA86C08	0.59	0.814	0.186	0.383	0.67	0.63
GATA158G03	0.79	0.94	0.06	0.562	0.78	0.82
D11S2001	0.63	0.844	0.156	0.369	0.66	0.67

PIC, polymorphism information content; DP, power of discrimination; P_m , probability of match; EP, power of exclusion; H_o , observed heterozygosity; H_e , expected heterozygosity.

The complete data can be accessed at <http://w1.88ko.net/vip/jiangshi/longbing.xls> or <http://www.fayi.cn/dna/d11s2001.htm> or <http://www.legalmed.org/dna/d11s2001.htm>

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

Allele	Frequency		
	GATA86C08 (N = 100)	GATA158G03 (N = 100)	D11S2001 (N = 100)
7	—	0.005	—
8	0.01	—	0.005
9	0.115	0.025	—
10	0.085	0.275	0.005
11	0.19	0.18	—
12	0.565	0.175	—
13	0.025	0.175	0.145
14	0.01	0.11	0.51
15	—	0.05	0.215
16	—	0.005	0.06
17	—	—	0.04
18	—	—	0.015
19	—	—	0.005
Total	1.000	1.000	1.000
HWE*	$p > 0.05$	$p > 0.05$	$p > 0.05$

*Test for Hardy–Weinberg equilibrium.

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