

FOR THE RECORD

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Chinese Population Data in Luoyang at Two Short Tandem Repeat Loci

POPULATION: Chinese population in Luoyang ($N = 116$).

KEYWORDS: forensic science, Han in Luoyang, China, DNA typing, short tandem repeats, polymerase chain reaction, population genetics, D4S2366, D20S604

Buccal swab samples were obtained from unrelated individuals of Chinese Han ethnic group in Luoyang, China. DNA was extracted using Chelex method (1). The volume of PCR reaction for each locus was 10 μ L. The PCR products were analyzed by horizontal nondenaturing polyacrylamide gel electrophoresis with discontinuous buffer system and visualized by silver staining (2,3). Data were analyzed using powerstats program (Promega Corporation, Madison, WI) (4). The genotype distribution was analyzed for Hardy–Weinberg equilibrium according to Hou's method (5). We did not find significant deviation from Hardy–Weinberg equilibrium in two STR loci (Tables 1 and 2).

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

Allele	Frequency	
	D4S2366 ($N = 116$)	D20S604 ($N = 117$)
9	0.327	
10	0.064	
11	0.305	0.009
12	0.109	0.064
13	0.095	0.111
14	0.082	0.068
15	0.018	0.312
16		0.355
17		0.060
18		0.021
Total	1.000	1.000
HWE*	$p > 0.05$	$p > 0.05$

*Test for Hardy–Weinberg equilibrium.

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

Locus	PIC	DP	Pm	EP	H _o	H _e
D4S2366	0.73	0.897	0.103	0.651	0.827	0.768
D20S604	0.72	0.890	0.110	0.299	0.607	0.751

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

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The complete data can be obtained from the authors on request to: jacky800817@126.com.

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