

FOR THE RECORD

X. P. Zhou,¹ M.D.; W. J. Zhang,¹ M.D.; Z. J. Jia,¹ M.D.; J. Wu,¹ M.D.; Y. P. Hou,¹ M.D.;
Y. B. Li,¹ M.D.; and Y. Z. Gao,¹ M.D.

Genetic Profile of Two STR Loci D1S2134, D2S2944 in Chinese Population

POPULATION: Chinese

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Blood samples were collected from unrelated individuals of Chinese Han ethnic group in Chengdu of China. DNA was extracted using Chelex method (1). PCR amplification conditions can be accessed at <http://www.legalmed.org/dna/d1s2134.htm>. The volume of PCR reaction for each locus was 37.5 μ L. The PCR products were analyzed by horizontal non-denaturing polyacrylamide gel electrophoresis with discontinuous buffer system and visualized by silver staining (2,3). Data were analyzed using POWERSTATS program (4). The genotype distribution was analyzed for Hardy-Weinberg equilibrium according to Hou's method (5) and no deviation from Hardy-Weinberg equilibrium was observed.

¹ Institute of Forensic Medicine, Sichuan University (West China University of Medical Sciences), Chengdu 610041, Sichuan, P. R. China.

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

Allele	Frequency	
	D1S2134 (N = 104)	D2S2944 (N = 108)
3	0.034	
4	0.173	0.009
5	0.293	0.097
6	0.216	0.222
7	0.038	0.269
8	0.024	0.199
9	0.024	0.148
10	0.024	0.051
11	0.029	0.005
12	0.144	
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	CE	H _o	H _e
D1S2134	0.79	0.920	0.080	0.543	0.769	0.811
D2S2944	0.78	0.925	0.075	0.644	0.824	0.805

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

The complete data can be accessed at <http://www.legalmed.org/dna/d1s2134.htm>.

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Additional information and reprint requests:
Professor Hou Yi Ping
Institute of Forensic Medicine
Sichuan University (West China University of Medical Sciences)
Chengdu 610041, Sichuan
P. R. China
E-mail: rechtsme@wcums.edu.cn