

## FOR THE RECORD

J. Yan,<sup>1</sup> Ph.D.; Y. P. Hou,<sup>1</sup> M.D.; J. Wu,<sup>1</sup> M.D.; Y. B. Li,<sup>1</sup> M.D.; M. S. Shi,<sup>1</sup> Ph.D.; J. Q. Deng,<sup>1</sup> Ph.D.; B. W. Ying,<sup>1</sup> M.D.; and Y. Z. Gao,<sup>1</sup> M.D.

## Polymorphism of Two STR Loci on Chromosome 21 in a Chinese Population

**POPULATION:** Chinese

**KEYWORDS:** forensic science, Han in Sichuan, China, DNA typing, short tandem repeats, polymerase chain reaction, population genetics, D21S1809, D21S205

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/d21s1809.htm>. The volume of PCR reaction for each locus was 37.5  $\mu$ 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.

<sup>1</sup> 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.

D21S1809 (N = 102)		D21S2054 (N = 113)	
Allele	Frequency	Allele	Frequency
9	0.010	12	0.075
10	0.034	13	0.040
11	0.152	14	0.239
12	0.505	15	0.522
13	0.201	16	0.106
14	0.083	17	0.018
15	0.015		
Total	1.000	Total	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 <sub>o</sub>	H <sub>e</sub>
D21S8069	0.630	0.847	0.153	0.300	0.608	0.677
D21S2054	0.610	0.828	0.172	0.262	0.575	0.654

\* PIC: (polymorphism information content), DP: (power of discrimination), Pm: (probability of match), H<sub>o</sub>: (observed heterozygosity), H<sub>e</sub>: (expected heterozygosity).

The complete dataset can be accessed at <http://www.legalmed.org/dna/d21s1809.htm>.

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Additional information and reprint requests:

Hou Yi Ping, M.D.

Institute of Forensic Medicine

Sichuan University (West China University of Medical Sciences)

Chengdu 610041, Sichuan

P. R. China

E-mail: rechtsme@wcums.edu.cn