## FOR THE RECORD

Y. Z. Gao, <sup>1</sup> M.D.; Y. P. Hou, <sup>1</sup> M.D.; B. W. Ying, <sup>1</sup> M.D.; J. Wu, <sup>1</sup> M.D.; Y. B. Li, <sup>1</sup> M.D.; and J. P. Tang, <sup>1</sup> Ph.D.

## Haplotype Diversity of Two Y-chromosomal SNPs in Chinese Populations

POPULATION: Chinese

KEYWORDS: forensic science, Y-chromosomal SNP, population genetics, allele-specific PCR, Chinese population

Blood specimens of unrelated individuals were obtained from 101 males of Tibetan ethnic group (Lasa, Tibet, and China) and 133 males of Chinese Han ethnic group (Chengdu, Sichuan Province, China). DNA was extracted using the Chelex method (1). An allele-specific PCR assay was used for the two Y-chromosome biallelic makers (2). PCR amplification conditions can be accessed at http://www.legalmed.org/dna/m9.htm. The volume of PCR reaction for each locus was 37.5 µL. PCR was performed in a GeneAmp PCR System 9600. The PCR products were analyzed by horizontal non-denaturing polyacrylamide gel electrophoresis with discontinuous buffer system and visualized by silver staining (3). Allelic frequencies were calculated through the gene counting method and gene diversity was estimated according to Hou's method (4). The allelic frequencies and haplotype distribution of the two loci in the two ethnic groups studied are given in Tables 1 and 2.

The complete data can be accessed at http://www.legalmed.org/dna/m9.htm.

## 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. Su B, Xiao J, Underhill P, Deka R, Zhang W, Akey J, et al. Y-chromosome evidence for a northward migration of modern humans into Eastern Asia during the Last Ice Age. Am J Hum Genet 1999;65:1718–24.
- 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.
- Hou Y, Zhang J, Li Y, Wu J, Zhang S, Prize M. Allele sequence of six new Y STR loci and haplotype in the Chinese Han population. Forensic Sci Int 2001:118:147–52.

Additional information and reprint requests:

Professor Yi Ping Hou

Institute of Forensic Medicine

Sichuan University (West China University of Medical Sciences)

Chengdu 610041

Sichuan

P. R. China

Phone: 86-28-85501549

Fax: 86-28-85501549

E-mail: rechtsme@wcums.edu.cn

<sup>&</sup>lt;sup>1</sup> Institute of Forensic Medicine, Sichuan University (West China University of Medical Sciences), Chengdu 610041, Sichuan, P. R. China.

## 2 JOURNAL OF FORENSIC SCIENCES

TABLE 1—Allele frequency of loci M9 and M119 in two ethnic groups.

Allele	Tibetan $(n = 101)$	Frequency	Diversity	Han $(n = 133)$	Frequency	Diversity
M9G M9C	61 40	0.6040 0.3960	0.4832	16 117	0.1203 0.8797	0.2138
M119A M119C	101	1.0000 0.0000	0.0000	121 12	0.9097 0.0903	0.1659

 $TABLE\ 2-Haplotype\ frequency\ and\ diversity\ consisting\ of\ loci\ M9\ and\ M119\ in\ two\ ethnic\ groups.$ 

Population	Haplotypes	Number	Frequency	Diversity	SE
Tibetan $(n = 101)$	M9C/M119A	40	0.3960	0.4832	0.0141
	M9G/M119A	61	0.6040		
Han $(n = 133)$	M9C/M119A	105	0.7895	0.3568	0.0341
,	M9C/M119C	12	0.0902		
	M9G/M119A	16	0.1203		
	M9G/M119C	0	0.0000		