

FOR THE RECORD

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Haplotype Frequencies for Two New Y-STR Loci in Chinese Population

POPULATION: Chinese

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Blood samples were collected from 104 unrelated male individuals of Han ethnic group in Chengdu of China. DNA was extracted using Chelex method (1). Primers for Y-GATA-C4 were re-designed by us. The sequences of the primers for Y-GATA-C4 were 5'-gtggaaccagcccaaatatc-3' and 5'-aatgctctcttgcttctcact-3'. Primers for Y-GATA-A10 were in accordance with White's (2). The PCR amplification conditions can be obtained at: <http://www.legalmed.org/dna/y-c4a10.htm>. The PCR reaction volume 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 (3). The diversity of haplotype, the discrimination power and the probability

of exclusion for the two Y-STR loci were calculated according to Hou's method (4).

The complete data can be accessed at: <http://www.legalmed.org/dna/y-c4a10.htm>.

Reference

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No.	Haplotype (C4-A10)	Numbers of Haplotype	Haplotype frequencies
1	9-15	1	0.0096
2	10-12	2	0.0192
3	10-13	7	0.0673
4	10-14	6	0.0577
5	10-15	1	0.0096
6	11-11	1	0.0096
7	11-12	5	0.0481
8	11-13	14	0.1347
9	11-14	8	0.0770
10	12-12	22	0.2116
11	12-13	12	0.1155
12	12-14	6	0.0577
13	13-11	2	0.0192
14	13-12	3	0.0288
15	13-13	2	0.0192
16	13-14	2	0.0192
17	14-12	2	0.0192
18	14-13	1	0.0096
19	14-14	1	0.0096
20	15-12	2	0.0192
21	15-13	2	0.0192
22	15-14	1	0.0096
23	16-14	1	0.0096
Total		104	1

H = 0.9090; SE = 0.0097; DP = 0.9090; PE = 0.9090. H = haplotype diversity; SE = standard error; DP = discrimination power; PE = probability of exclusion.