

## FOR THE RECORD

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# Allele Frequency Distribution of STR Loci D11S1390 and D11S2008 in Two Populations

**POPULATIONS:** 105 unrelated Chinese Han volunteer donors, 100 unrelated Thai volunteer donors.

**KEYWORDS:** forensic science, D11S1390, D11S2008, short tandem repeat, polymerase chain reaction, population genetics, Chinese Han, Thai, DNA typing

Blood Specimens were obtained from 105 unrelated Chinese volunteer donors, 100 unrelated Thai volunteer donors respectively. DNA samples were extracted from blood specimens using Chelex-100 (1). Genotyping were carried out by PCR in a PE9600 cycler. The components of a 20  $\mu$ L reaction mixture were as follows: template DNA 20 ng, primer 0.2  $\mu$ mol/L each, dNTPs 200  $\mu$ mol/L each, KCl 50  $\mu$ mol/L, Tris-HCl(pH 8.3)10 mmol/L, MgCl<sub>2</sub>1.5 mmol/L, Taq polymerase 1U. Primer sequences:

D11S1390: 5'-GGGTGGAATCCTTCAGAATT-3', 5'-AAAT-ATTACCGGGC TTGGAC-3'; D11S2008: 5'-CATCCATCTCA-TCCCATCAT PCR -3', 5'-TTCACCCTACTGCC AACTTC-3'

PCR conditions (D11S1390): start at 94°C for 5 min, followed by 30 cycles consist of 30 s at 94°C, 45 s at 56°C, 55 s at 72°C followed by a 7 min extention at 72°C. The amplified products were electrophoresed in 6% polyacrylamide gel by using 100 bp ladders and allelic markers as size markers, followed by silver staining (2). The amplified products were examined by an ABI PRISM™ 310 Genetic Analyzer. Data were analyzed by The Promega Software, POWERSTATS. The complete dataset is available to any interested researcher by contacting [kju@scu.edu.cn](mailto:kju@scu.edu.cn).

## References

1. Singer-Sam J, Tanguary RL, Riggs AD. Use of Chelex to improve the PCR signal from a small number of cells. *Amplification* 1989;3:11.

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TABLE 1—Allele frequency distributions for the loci D11S1390 and D11S2008 in Two Populations as well as their forensic parameters in Chinese Han and Thai.

Allele	D11S1390		D11S2008	
	Thai (N = 100)	Chinese (N = 105)	Thai (N = 100)	Chinese (N = 105)
10	0.005	0.005	...	...
11	0.255	0.252	...	...
12	0.495	0.471	...	...
13	0.190	0.238	...	...
14	0.050	0.029	0.015	0.010
15	0.005	0.005	0.005	0.005
16	...	...	0.050	0.062
17	...	...	0.275	0.229
18	...	...	0.365	0.381
19	...	...	0.200	0.214
20	...	...	0.090	0.090
21	...	...	...	0.010
DP	0.831	0.796	0.890	0.890
Het	0.630	0.743	0.720	0.743
PE	0.316	0.498	0.444	0.498
PIC	0.60	0.60	0.70	0.71
HWE * test	<i>P</i> > 0.05	<i>P</i> > 0.05	<i>P</i> > 0.05	<i>P</i> > 0.05

\* Probability values; DP: power of discrimination; Het: heterozygosity; PE: power of exclusion; PIC: polymorphism information content.

2. Bassam BJ, Caetano-Anolles G, Gresshoff PM. Fast and sensitive silver staining of DNA in polyacrylamide gels. *Anal Biochem* 1991;196:80–3. [PubMed]

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