## FOR THE RECORD

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## Allele Distributions for D21S1435 and D21S2055 Loci in Two Chinese Populations

POPULATIONS: Unrelated people of Han population living in Chengdu, Hui population living in Gansu, China

KEYWORDS: forensic science, DNA typing, population genetics, short tandem repeats, D21S1435, D21S2055, China

Blood specimens were collected from unrelated volunteer donors. DNA was extracted from blood specimens using Chelex100 (1). DNA typing was carried out by PCR. The components of PCR were: target DNA 20 ng , primer $0.2 \mu \mathrm{~mol} / \mathrm{L}$, dNTPs 200 $\mu \mathrm{mol} / \mathrm{L}, \mathrm{KCl} 50 \mu \mathrm{~mol} / \mathrm{L}$, Tris- $\mathrm{HCl}(\mathrm{pH} 8.3) 10 \mathrm{mmol} / \mathrm{L}, \mathrm{MgCl}_{2}$ $1.5 \mathrm{mmol} / \mathrm{L}$, Taq 1U. Primer sequences: D21S1435: 5'-CCC TCT CAA TTG TTT GTC TAC C-3', $5^{\prime}$-ATG GCA CTG AAA TCT CTT GC-3'; D21S2055: 5'-AAC AGA ACC AAT AGG CTA TCT ATC-3', $5^{\prime}$-TCT CCT ACC AAG TGA TTT ACT GTA-3'.

[^0]PCR conditions: D21S1435: start at $94^{\circ} \mathrm{C}$ for $3 \mathrm{~min}, 30$ cycles consist of 35 s at $94^{\circ} \mathrm{C}, 45 \mathrm{~s}$ at $61^{\circ} \mathrm{C}, 55 \mathrm{~s}$ at $72^{\circ} \mathrm{C}$ followed by a 5 min extension at $72^{\circ} \mathrm{C}$. D2152055: start at $94^{\circ} \mathrm{C}$ for $3 \mathrm{~min}, 30$ cycles consist of 35 s at $94^{\circ} \mathrm{C}, 45 \mathrm{~s}$ at $61^{\circ} \mathrm{C}, 55 \mathrm{~s}$ at $72^{\circ} \mathrm{C}$ followed by a 5 min extension at $72^{\circ} \mathrm{C}$. The amplified products were electrophoresed in 6\% polyacrylamide gel by using 100 bp ladder and allelic markers for both D21S1435 and D21S2055 as size marker, followed by sliver staining. Data were analyzed by The Promega Software, POWERSTATS. Calculating of Chi-square test was carried out for Hardy-Weinberg equilibrium test.

The complete data set can be accessed at http://www.meiyun@ public.sc.cninfo.net.

## Reference

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 of two STR loci, D21S1435 and D21S2055.

| Alleles | D21S1435 |  | D21S2055 |  |  | D21S1435 |  | D21S2055 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Han } \\ n=112 \end{gathered}$ | $\begin{gathered} \text { Hui } \\ n=106 \end{gathered}$ | $\begin{gathered} \text { Han } \\ n=126 \end{gathered}$ | $\begin{gathered} \text { Hui } \\ n=107 \end{gathered}$ | Alleles | $\begin{gathered} \text { Han } \\ n=112 \end{gathered}$ | $\begin{gathered} \text { Hui } \\ n=106 \end{gathered}$ | $\begin{gathered} \text { Han } \\ n=126 \end{gathered}$ | $\begin{gathered} \text { Hui } \\ n=107 \end{gathered}$ |
| 14 |  |  | 0.095 | 0.126 | 27 |  |  | 0.016 | 0.009 |
| 15 |  |  | 0.008 | 0.014 | 28 |  |  | 0.008 | 0.019 |
| 16 | 0.094 | 0.104 | 0.000 | 0.019 | 29 |  |  | 0.044 | 0.056 |
| 17 | 0.250 | 0.288 | 0.000 | 0.009 | 30 |  |  | 0.063 | 0.047 |
| 18 | 0.268 | 0.264 | 0.000 | 0.009 | 31 |  |  | 0.071 | 0.084 |
| 19 | 0.254 | 0.269 | 0.004 | 0.000 | 32 |  |  | 0.075 | 0.033 |
| 20 | 0.089 | 0.061 | 0.012 | 0.009 | 33 |  |  | 0.004 | 0.009 |
| 21 | 0.045 | 0.014 | 0.044 | 0.033 | 34 |  |  | 0.024 | 0.000 |
| 22 |  |  | 0.222 | 0.150 | 35 |  |  | 0.000 | 0.009 |
| 23 |  |  | 0.210 | 0.210 | DP | 0.905 | 0.884 | 0.966 | 0.969 |
| 24 |  |  | 0.056 | 0.047 | H | 0.821 | 0.857 | 0.770 | 0.869 |
| 25 |  |  | 0.028 | 0.056 | PE | 0.639 | 0.693 | 0.544 | 0.733 |
| 26 |  |  | 0.016 | 0.051 | PIC | 0.750 | 0.720 | 0.860 | 0.890 |

TABLE 2—Genotypes of D21S1435 and D21S2055.

| Genotypes | Han |  | Hui |  | Genotypes | Han |  | Hui |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | D21S2055 | D21S1435 | D21S2055 | D21S1435 |  | D21S2055 | D21S1435 | D21S2055 | D21S1435 |
| 14-14 | 1 |  | 4 |  | 21-25 | 1 |  | 0 |  |
| 14-16 | 0 |  | 1 |  | 21-29 | 1 |  | 0 |  |
| 14-17 | 0 |  | 1 |  | 21-31 | 1 |  | 1 |  |
| 14-18 | 0 |  | 1 |  | 22-22 | 10 |  | 2 |  |
| 14-20 | 0 |  | 1 |  | 22-23 | 11 |  | 5 |  |
| 14-22 | 5 |  | 2 |  | 22-24 | 1 |  | 1 |  |
| 14-23 | 5 |  | 4 |  | 22-25 | 2 |  | 5 |  |
| 14-24 | 2 |  | 3 |  | 22-26 | 1 |  | 1 |  |
| 14-25 | 2 |  | 0 |  | 22-29 | 4 |  | 3 |  |
| 14-26 | 1 |  | 0 |  | 22-30 | 4 |  | 3 |  |
| 14-27 | 0 |  | 1 |  | 22-31 | 3 |  | 2 |  |
| 14-29 | 1 |  | 0 |  | 22-32 | 2 |  | 1 |  |
| 14-30 | 2 |  | 1 |  | 23-23 | 7 |  | 4 |  |
| 14-32 | 3 |  | 1 |  | 23-24 | 3 |  | 2 |  |
| 14-33 | 0 |  | 1 |  | 23-25 | 2 |  | 1 |  |
| 14-34 | 1 |  | 0 |  | 23-26 | 0 |  | 6 |  |
| 14-35 | 0 |  | 2 |  | 23-27 | 3 |  | 0 |  |
| 15-22 | 0 |  | 3 |  | 23-28 | 0 |  | 1 |  |
| 15-31 | 1 |  | 0 |  | 23-29 | 1 |  | 0 |  |
| 15-32 | 1 |  | 0 |  | 23-30 | 3 |  | 4 |  |
| 16-16 | 0 | 2 | 0 |  | 23-31 | 4 |  | 9 |  |
| 16-17 | 0 | 6 | 0 | 9 | 23-32 | 5 |  | 4 |  |
| 16-18 | 0 | 8 | 1 | 9 | 23-33 | 1 |  | 0 |  |
| 16-19 | 0 | 2 | 0 | 2 | 24-24 | 3 |  | 0 |  |
| 16-20 | 0 | 0 | 0 | 2 | 24-29 | 0 |  | 1 |  |
| 16-21 | 0 | 1 | 0 | 0 | 24-31 | 0 |  | 1 |  |
| 16-31 | 0 |  | 2 |  | 25-25 | 0 |  | 2 |  |
| 17-17 | 0 | 3 | 0 | 5 | 25-26 | 0 |  | 2 |  |
| 17-18 | 0 | 18 | 0 | 20 | 26-27 | 1 |  | 0 |  |
| 17-19 | 0 | 19 | 0 | 16 | 26-29 | 0 |  | 1 |  |
| 17-20 | 0 | 5 | 0 | 4 | 26-33 | 0 |  | 1 |  |
| 17-21 | 0 | 2 | 0 | 2 | 26-34 | 1 |  | 0 |  |
| 17-22 | 0 |  | 1 |  | 27-32 | 0 |  | 1 |  |
| 18-18 | 0 | 7 | 0 | 2 | 28-29 | 0 |  | 1 |  |
| 18-19 | 0 | 14 | 0 | 18 | 28-31 | 1 |  | 1 |  |
| 18-20 | 0 | 5 | 0 | 4 | 28-34 | 1 |  | 0 |  |
| 18-21 | 0 | 1 | 0 | 1 | 29-29 | 1 |  | 1 |  |
| 19-19 | 0 | 7 | 0 | 9 | 29-30 | 0 |  | 2 |  |
| 19-20 | 0 | 5 | 0 | 3 | 29-31 | 2 |  | 2 |  |
| 19-21 | 0 | 3 | 0 | 0 | 30-30 | 3 |  | 0 |  |
| 19-31 | 1 |  | 0 |  | 30-32 | 1 |  | 0 |  |
| 20-20 | 1 | 1 | 0 | 0 | 31-31 | 1 |  | 0 |  |
| 20-21 | 0 | 3 | 0 | 0 | 31-32 | 2 |  | 0 |  |
| 20-28 | 0 |  | 1 |  | 32-32 | 1 |  | 0 |  |
| 20-31 | 1 |  | 0 |  | 32-34 | 3 |  | 0 |  |
| 21-21 | 1 |  | 1 |  | N | 126 | 112 | 107 | 106 |
| 21-22 | 3 |  | 1 |  | HWE | 14.20 | 4.63 | 23.37 | 10.23 |
| 21-23 | 1 |  | 1 |  | df | 14 | 10 | 14 | 9 |
| 21-24 | 2 |  | 2 |  | P |  | $>0.05$ |  |  |


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