FOR THE RECORD


Allele Frequency of D8S1121 and D8S1130 in Two Populations

Blood samples was collected from unrelated individuals of Chinese Han population living in Chengdu and a Thai population from Thailand. Genomic DNA were extracted using Chelex-100 (1). PCR was performed in a 20 µL reaction mixture containing 20 ng, template DNA, 0.2 µmol/L each primer, 200 µmol/L dNTPs, 10 mmol/L Tris-HCl (pH 8.3), KCl 50 µmol/L, 1.5 mmol/L MgCl2 and 1.0 U Taq polymerase. Primer sequences are as follows:

D8S1121: 5′-tca ctc cat cag tgg gtc tt-3′
5′-tct ttt tgc ttc agg aac ca-3′.

D8S1122: 5′-gaa gat ttg gct ctg ttg ga-3′
5′-tgt tct act gct ata gct ttc ata a-3′.

PCR conditions: start at 94°C for 3 min, followed by 32 cycles of 30 s at 94°C, 45 s at 60°C, 50 s at 72°C followed by a 10 min extention at 72°C. The amplified products were electrophoresed in 6% polyacrylamide followed by sliver staining (2). The amplified products were sequenced by ABI PRISM™ 377 Genetic Analyzer in order to make the right nomenclature. Data were analyzed by The Promega Software, POWERSTATS (3). No deviation from Hardy-Weinberg equilibrium was found in any population within the two loci. The complete dataset is available to any interested researcher by contacting kju@scu.edu.cn.

TABLE 1—Allele frequencies for the loci D8S1121 and D8S1130 as well as their forensic parameters in Chinese Han and Thai.

<table>
<thead>
<tr>
<th>Allele</th>
<th>Chinese (n = 100)</th>
<th>Thai (n = 120)</th>
<th>Chinese (n = 103)</th>
<th>Thai (n = 120)</th>
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<tbody>
<tr>
<td>12</td>
<td>0.035</td>
<td>0.013</td>
<td>0.097</td>
<td>0.038</td>
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<td>13</td>
<td>0.040</td>
<td>0.029</td>
<td>0.223</td>
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<td>14</td>
<td>0.180</td>
<td>0.154</td>
<td>0.180</td>
<td>0.233</td>
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<td>15</td>
<td>0.400</td>
<td>0.425</td>
<td>0.160</td>
<td>0.179</td>
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<td>16</td>
<td>0.205</td>
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<td>0.228</td>
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<td>17</td>
<td>0.135</td>
<td>0.108</td>
<td>0.087</td>
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<td>18</td>
<td>0.005</td>
<td>0.046</td>
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<td>0.021</td>
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<tr>
<td>HWE</td>
<td>p &gt; 0.05</td>
<td>p &gt; 0.05</td>
<td>p &gt; 0.05</td>
<td>p &gt; 0.05</td>
</tr>
<tr>
<td>H</td>
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<td>0.786</td>
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<tr>
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<td>0.121</td>
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<tr>
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<td>0.879</td>
<td>0.932</td>
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<tr>
<td>PE</td>
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<td>0.496</td>
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<tr>
<td>PI</td>
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<td>1.94</td>
<td>2.34</td>
<td>2.22</td>
</tr>
</tbody>
</table>

HWE: Hardy-Weinberg equilibrium test; H: Observed heterozygosity; heterozygosity; PM: Matching probability; PIC: Polymorphism information content; DP: Power of discrimination; PE: Power of exclusion; PI: Typical paternity index.

References


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