## FOR THE RECORD

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## Genetic Variation at Five STR Loci (D10S2325, D13S325, D20S470, D18S51, and D19S253) in Korean Population

POPULATION: Korean

KEYWORDS: forensic science, DNA typing, population genetics, South Korean, D10S2325, D13S325, D20S470, D18S51, D19S253

Allele and genotype frequencies of the five STR loci (D10S2325, D13S325, D20S470, D18S51, and D19S253) were determined. Specimens were collected from unrelated volunteer blood donors from a population of Chungnam Province in South Korea (n = 130). DNA was obtained from the blood specimens using the Wizard genomic DNA purification kit (Promega, USA) and amplified using the multiplex PCR (triplex amplification of D10S2325, D13S325, and D20S470; duplex amplification of D18S51 and D19S253). The amplified DNAs were separated by denaturing polyacrylamide gel electrophoresis and then visualized by the silver staining (1). Exact  $\chi^2$ -test for Hardy-Weinberg equi-

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librium and pairwise disequilibrium were analyzed using the GDA program written by Lewis P.O. and Zaykin D (2). The chance of exclusion of combined system was 0.9986.

The data set can be accessed at http://www.dnatyping.co.kr/genedata/str1.html.

## References

- Bassam BJ, Caetano-Anolles G, Gresshoff PM. Fast and sensitive silver staining of DNA in polyacrylamide gels. Anal Biochem 1991;196:80–3.
- Weir BS. Genetic data analysis II. Massachusetts: Sinauer, Sunderland, 1991.

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Alleles	D10S2325	D138325	D20S470	D18S51	D19S253
3		0.004			
4		0.004			
5		0.062	0.004		
6	0.023	0.300			0.235
7	0.288	0.238			0.038
8	0.023	0.204	0.015		0.004
9	0.142	0.119	0.019		0.012
10	0.081	0.031	0.135		0.088
11	0.096	0.027	0.015	0.008	0.300
12	0.158	0.008	0.042	0.054	0.269
13	0.112		0.104	0.238	0.038
14	0.065	0.004	0.162	0.204	0.015
15	0.004		0.138	0.162	
16	0.008		0.173	0.135	
17			0.131	0.042	
18			0.054	0.062	
19			0.004	0.038	
20			0.004	0.035	
21				0.023	
P (exact test)*	0.060	0.965	0.646	0.199	0.964
Heterozygosity (exp)	0.841	0.795	0.877	0.849	0.784
Heterozygosity (obs)	0.885	0.854	0.931	0.838	0.785
PD†	0.947	0.920	0.963	0.951	0.902
PIC‡	0.820	0.760	0.860	0.830	0.740
CE§	0.764	0.702	0.859	0.672	0.557

\*Based on 3200 shufflings. †PD: Power of discrimination. ‡PIC: Polymorphism information content. §CE: Chance of exclusion.