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Genetic Polymorphism of a Short Tandem Repeat Locus
Human Lipoprotein Lipase Gene in Koreans

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Human Lipoprotein Lipase gene (LPL) has tetranucleotide repeat sequence of TTTA. The repeat numbers are various, and patterns of their distributions are various according to each ethnic group. We studied the polymorphism of LPL in 300 unrelated individuals among Koreans. Ten genotypes made of six alleles (alleles 8, 9, 10, 11, 12, 13) were identified. Among them Genotype 10-10 was the commonest. Among the six alleles allele 10 was the commonest as in the other ethnic groups. We identified Allele 8 which had not been found in other ethnic groups. No deviation from Hardy-Weinberg expectation was observed.

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Triplex Coamplification and Identifying Polymorphisms of
Six Human Short Tandem Repeat Loci

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Population genetic studies were carried out on the six human short tandem repeat (STR) Loci. Human tyrosine hydroxylase gene (THO1), Human thyroid peroxidase gene (TPOX) and Human c-fms proto-oncogene for CSF-1 receptor gene (CSF1PO) were coamplified followed by denaturing polyacrylamide gel electrophoresis, silver staining and typing. Human von Willebrand factor gene (vWA), c-fes/lps proto-oncogene (FESFPS) and Human hypoxanthine phosphoribosyl-transferase gene (HPRTB) were coamplified and typed. The observed heterozygosity for above six loci were 66.3%, 67.4%, 73.4%, 81.0%, 64.9% and 69.2%. No deviation from Hardy-Weinberg expectations was observed for the six loci. The power of this database excluding the falsely accused was 0.999995401. So the database was established fitting to individual identification study in the Korean population.