

FRENCH ALLELE FREQUENCIES AND HAPLOTYPES OF EIGHT Y-SPECIFIC STRs

Christine Keyser, F.X. Ricaud, P. Blandin and B. Ludes

Institut de Medicine Legale, Strasbourg Cedex, France



The interests of Y-chromosomal STR polymorphisms are now well established in the fields of forensic biology, paternity testing (particularly in deficiency cases), evolutionary studies and anthropological research. Recently Roewer *et al.* (2001) published results of a multi-laboratory cooperative study designed to develop a large collection of male-specific genetic profiles from European populations. It appeared from this article that no database for French males was available yet.

In order to complete this international database, the allele distribution of the loci DYS19, DYS385-I and -II, DYS389-I, DYS390, DYS391, DYS392, DYS393 and YCAII loci was determined in a sample of a hundred unrelated males from France. Six Y-STR loci were co-amplified in a multiplex reaction using the Y-Plex6™ kit (ReliaGene Technologies Inc.). The two others (YCAII and DYS392) were amplified in single reactions. PCR products were separated and detected on a capillary electrophoresis ABI PRISM® 3100 Genetic Analyzer. Fragment sizes were determined automatically using the Gene Mapper™ (v.1.0.2) software and typed by comparison to the allelic ladder included in the kit. The results were compared with studies involving other populations.