

Genetic Admixture Estimate in the Uruguayan Population Based on the Loci LDLR, GYPA, HBGG, GC and D7S8

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ABSTRACT We have analyzed the allele and phenotype frequencies in five DNA loci: LDLR, GYPA, HBGG, GC, and D7S8 in a sample from Uruguay. All the loci were in Hardy-Weinberg equilibrium (HWE) except the D7S8 locus. Our genetic admixture estimate showed evidence that the main genetic contribution comes from Europe with a small Amerindian and a minor African contribution with the admixture proportions: 84.1%, 10.4%, and 5.6% respectively. Genetic distances between the Uruguayan sample and several other Latin American populations revealed the closest genetic relationship with the Argentinean capital city, probably because its common history and demographic characteristics.