

## SPANISH GENOME STUDY

In order to characterize the genetic variation of the Spanish population, we have carried out a large genotypic study of hundreds of individuals from Spain. The goal of this study is to describe the common genetic variation in this population, providing a haplotype map and a copy number variation map of the human genome in the Spanish population.

For this purpose, we have ascertained six hundred individuals from an epidemiological sample of different regions of Spain. These individuals have been genotyped with the Affymetrix Human Mapping 250K SNP array. This gene chip provides a good coverage of the human genome, with about 262,000 SNP markers scattered across the genome. This technology offers great quality and value, with excellent genotype call rate (97.1%), concordance (99.6%), and reproducibility (99.9%).

We are currently at the stage of cleaning up the genotypic data, and analysis will follow imminently. We will characterize common genetic variation in this control Spanish population, providing allele, haplotype and copy number variation estimates. The results of these analyses will be published in a peer-review journal and will be freely available on a Website. These data have many potential applications, providing a pool of control subjects for independent projects, and thus facilitating association and copy number variation studies.

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