

Table 2

Research Targets in Genetic Variation and Disease Association Studies Before and After the Human Genome Project

Before the Human Genome Project	After the Human Genome Project
Mutations in one or a few genes	Genetic variations in many genes
Protein-coding genes	Protein-coding genes and RNA
Protein-coding regions in a gene	Intragenic regions (introns); regulatory elements; intergenic regions
Mainly point mutations	SNPs; short insertions and deletions; copy number variations; other structural variations
Individual genes	Gene-gene interactions; gene-environment interactions
One single gene or a few genes per study	Tens of thousands of genes or the whole genome in one study