

# 1 Genetic Association Studies

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Population-based genetic association studies. These studies generally aim to relate genetic sequence information derived from unrelated individuals to a measure of disease progression or disease status. The field of genomics spans a wide array of research areas that involve the many stages of processing from genetic sequence information to protein products and ultimately the expression of a trait.

## 1.1 Overview of population-based investigations

Population-based genetic association studies can be divided roughly into four categories of studies: candidate polymorphism, candidate gene, fine mapping and whole or partial genome-wide scans.

### 1.1.1 Types of investigations

*Candidate polymorphism studies*