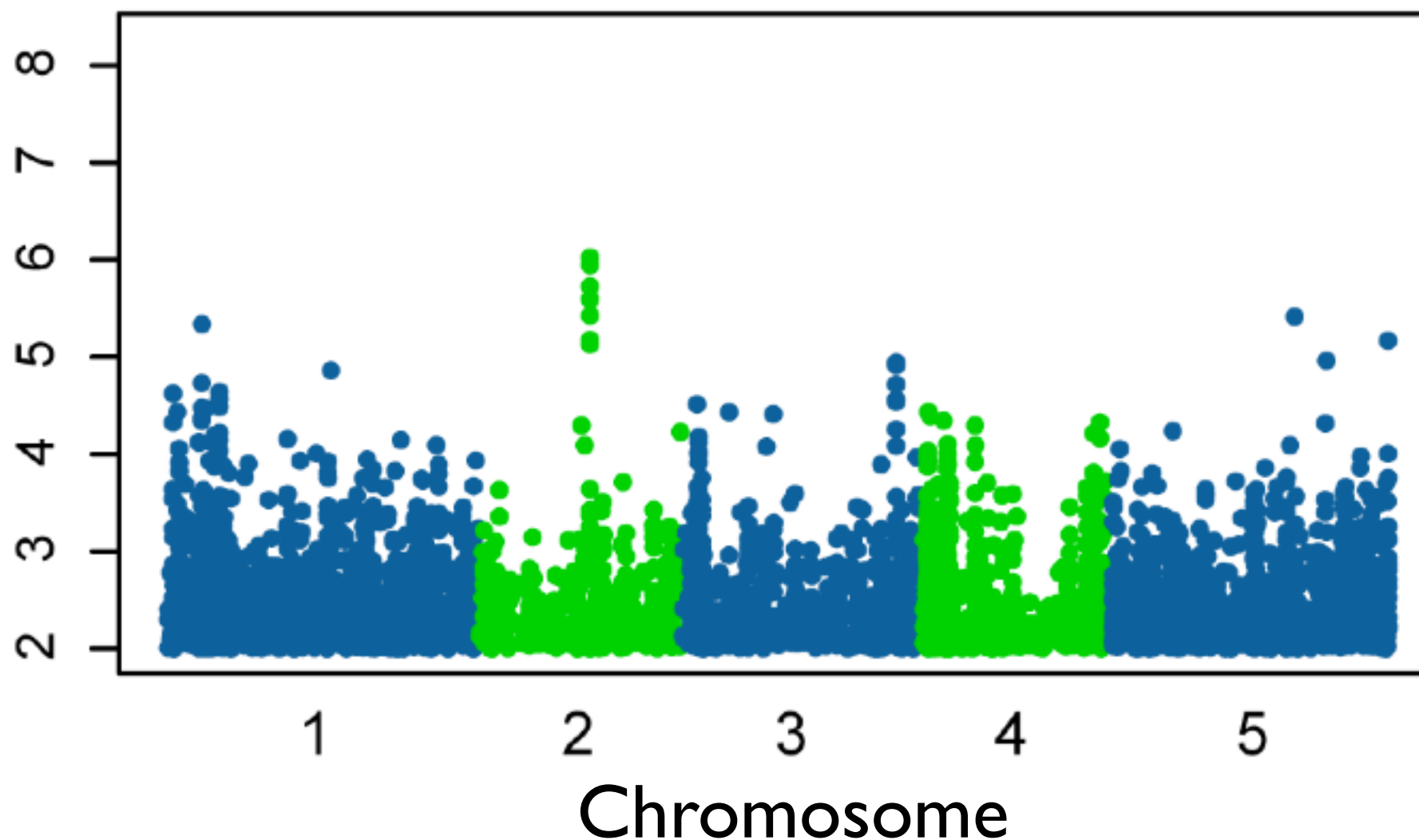# Association Mapping vs Genome-Wide Association Mapping

- For GWAS repeat the analysis for SNPs across the whole genome.

- Can plot the results as a manhattan plot:

  - each point is a SNP

  - X-axis is position in the genome. In this case there are 5 chromosomes

  - Y-axis is -log10(P) for association with the trait. Higher values are more significant.

Filiault & Maloof, 2012

- Why might some SNPs be associated with a trait and not others?

- Historical Recombination!