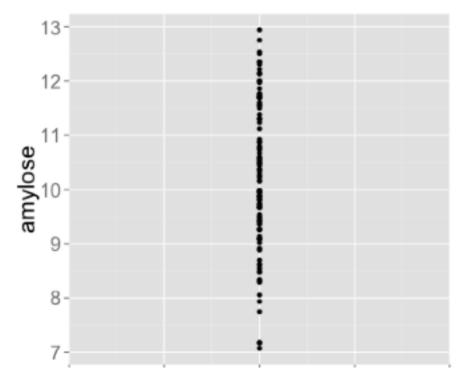
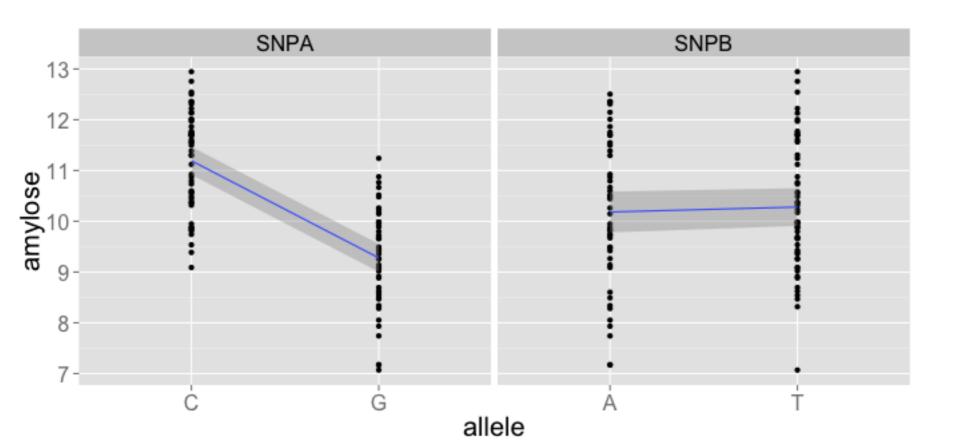
### Association Mapping, simulated example for amylose

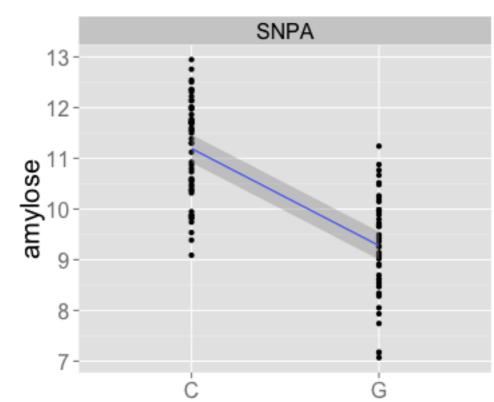
## Measure amylose in many rice varieties

# Separate measurements according to SNP allele

Test for association. Slope not equal to 0 = association.

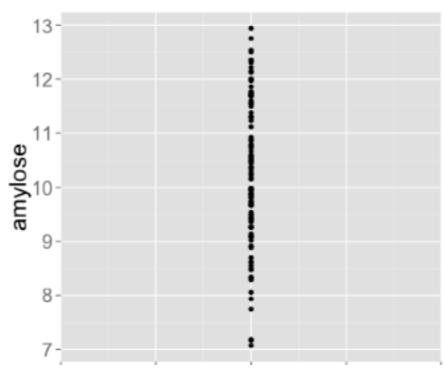




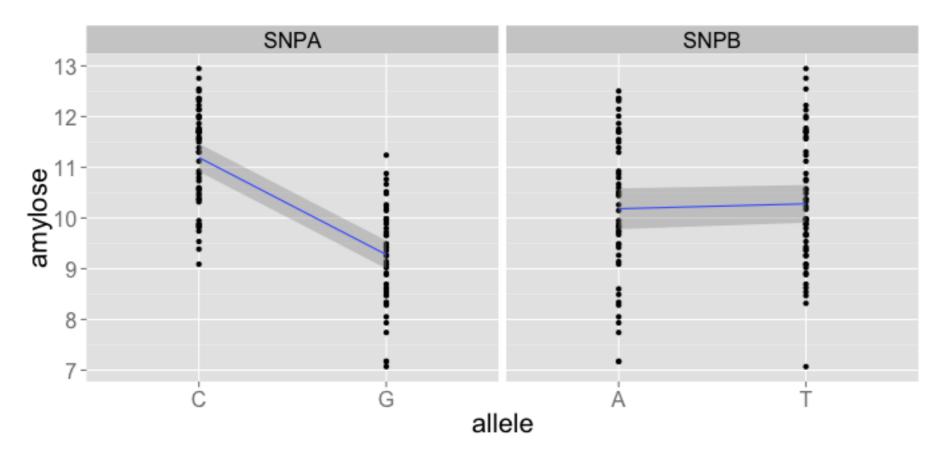


#### Association Mapping, simulated example for amylose

Measure amylose in many rice varieties



Separate measurements according to SNP allele



• Test for association. Slope not equal to 0 = association.

### 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 -log I 0(P) for association with the trait. Higher values are more significant.

