Recap:

☐ Hardy - Weinberg: (lokal population: no selection, no sigs)

Given allele frequencies $f(G_1) = p$

$f(G_2) = q = 1 - p$

$\Rightarrow$ Genotype frequencies $f(G_1 G_1) = p^2$

$f(G_1 G_2) = 2p \cdot q$

$f(G_2 G_2) = q^2$

$\Rightarrow$ Frequencies const. over generations

In practice: Large deviations from HWE:
- locus is under selection
- if one of homozygous genotypes
  is missing $\Rightarrow$ ROH (runs of homozygosity)
      $\Rightarrow$ indication for lethal allel