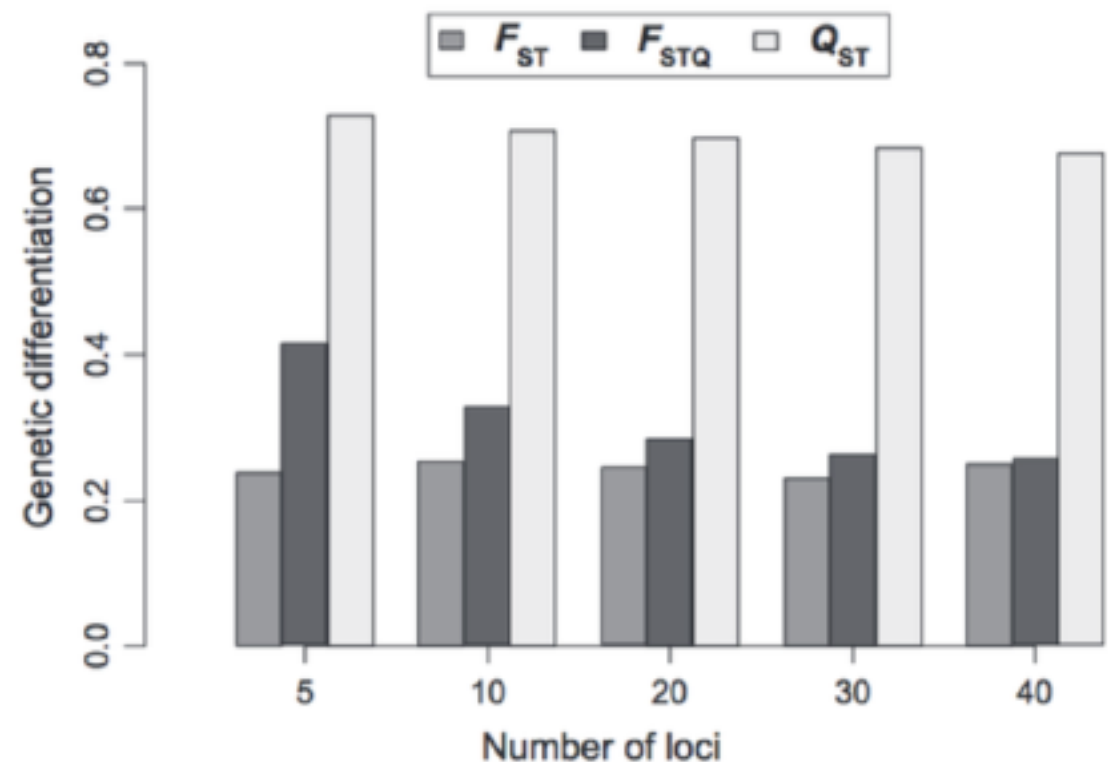


Epistasis

Selection often works to optimize epistatic **interactions** among loci by changing covariance in allele frequencies among populations.

- “Adaptive” loci are not even expected to look different than neutral loci!



Measuring Interactions

- A standard measure of inter-locus interaction is that of *linkage disequilibrium*

$$D = h_{11} - p_1 q_1$$

- Has within and among population components.