

- how do we infer the 'purpose' (i.e., reason for persistence) of deleterious Mendelian alleles?

- drift.
- heterozygote advantage.
- frequency-dep. selection.

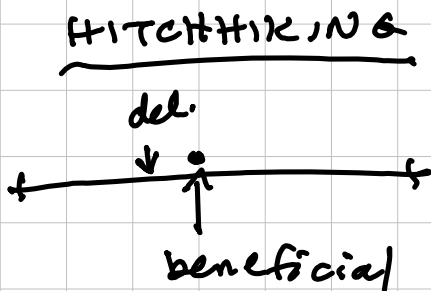
PKU: ? what is the heterozyg advantage?

~ 1.5% advantage?

higher birth weight?

mangrotoxin resistance?

starvation resistance?



LINKAGE  
DISEQUILIBRIUM

outbreeding depression

geographic distribution  
mechanistic basis  
[evidence for positive selection]

SELECTIVE SWEEPS

- can detect evidence of past positive selection from decreased regions of genetic variation