

Introduction to Coalescent Models



Biostatistics 666



Last Lecture

- Haplotype Frequencies
- Linkage Equilibrium
- Linkage Disequilibrium
 - Association between neighboring alleles
 - Expected to decrease with distance
- Measures of linkage disequilibrium
 - D , D' and Δ^2



Modeling populations

- Important Parameters
 - Mutation rate (μ)
 - Population Size
 - Haploid population (N chromosomes)
 - Diploid population (2N chromosomes)
 - Time (t)
 - Final sample size (n)
 - Also recombination rate, selection, migration