Statistical Genetics Analyses in R

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1. Quantitative Genetics
   1. Quantitative Traits
   2. Gene x Environment interactions
   3. Variance and heritability
   4. Recombinant Inbred Lines (RILs)
   5. QTL analysis
2. Population Genetics
   1. Hardy-Weinberg and linkage disequilibrium
   2. Phylogenetics
3. Evolutionary Genetics
   1. Evolution of genetic systems
   2. Game Theory
   3. Genetic Algorithm
   4. Evolutionary Algorithms
4. Genetics of complex diseases
   1. Genome Wide Association Studies (GWAS)
   2. Pedigree analysis
5. Genetic Epidemiology
   1. Infection models