

Parametric Linkage Analysis

Biostatistics 666
Lecture 25

Last Lecture

- **Elston Stewart Algorithm**
 - Can handle large pedigrees
 - Proceeds one nuclear family at a time
 - Limited to small numbers of markers
- **Calculates conditional probabilities for sections of the pedigree**

Today

- Refresher on non-parametric analysis
- Parametric linkage analysis
 - Evaluates a specific trait model
 - Disease allele frequencies
 - Probability of disease for each genotype
- Successfully mapped $>1,000$ rare disorders