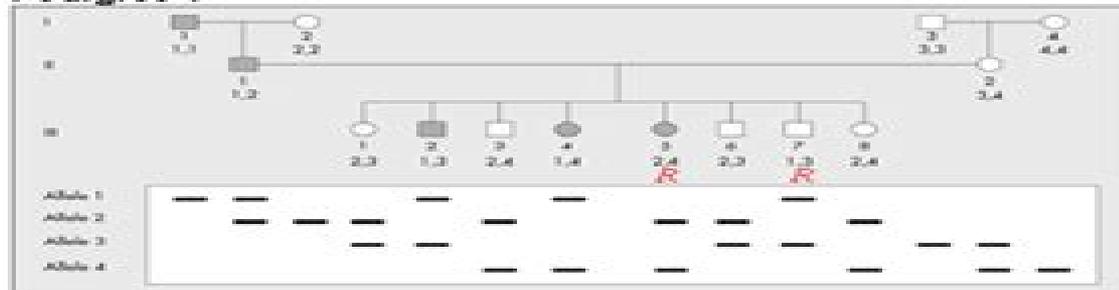


Gene Mapping 1 Tutorial

1) All family members of Pedigree 1 have been genotyped for a four-allele microsatellite marker, as shown in the autoradiogram below the pedigree.

Pedigree 1



R = Recombinant

Determine linkage phase for the disease and marker locus in the affected male in generation II and estimate the recombination frequency based on the data you have from the offspring in generation III.

In general, linkage phase refers to the knowledge of how alleles at two or more loci are arranged on the same chromosome (homologue) and whether they are inherited together. It helps determine how alleles are passed on together from each parent. In this informative family, linkage phase is straightforward - the disease allele D must be on the homologue that contains marker allele 1 in this male II-1 (D1/d2 haplotypes). In other words, allele D from the affected father (I-1) was passed on with marker allele 1 to his son, II-1

Two recombinants so the recombination frequency is $2/8 = 0.25$

Based on the information you have (and without calculating the LOD score) is there any initial evidence for linkage? Explain your reasoning by assuming full penetrance.

Assuming 100% penetrance, we can say that yes, there is some evidence of linkage. We can observe that allele D is inherited from the affected father (II-1) to his affected offspring (III-2 and III-4), along with marker allele 1. Except for the two recombinants (III-5 and III-7), the remaining unaffected offspring (III-1, III-3, III-6, and III-8) have the expected allele d paired with marker allele 2, as would be predicted under the assumption of linkage.

This provides initial evidence for linkage, further supported by a recombination frequency smaller than 0.5. However, it's crucial to remember that this is preliminary evidence from a single family. To confirm linkage, additional families should be studied, and a comprehensive linkage analysis using a larger number of marker loci should be conducted under different hypotheses of θ . This will help determine whether there is strong evidence of linkage ($LOD > 3$) or not.

Gene Linkage And Mapping Power Notes Answers

Arshad Iqbal



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Concepts and Problem Solving in Basic Genetics Rowland H. Davis,Stephen G. Weller,1991

Handbook of Psychiatric Genetics Kenneth Blum,Ernest P. Noble,1996-10-29 Psychiatric genetics is an exciting new discipline that explores how our minds and behavior are influenced by our genes Increased interest in this area of medical genetics has been sparked by advances in molecular genetic techniques the genome project the neurosciences the role of genes in somatic diseases and the linking of specific genes with complex mental disorders This Handbook is the definitive resource on this complex and sometimes controversial new field

Aquaculture Genome Technologies Zhanjiang (John) Liu,2008-02-28 Genomics is a rapidly growing scientific field with applications ranging from improved disease resistance to increased rate of growth Aquaculture Genome Technologies comprehensively covers the field of genomics and its applications to the aquaculture industry This volume looks to bridge the gap between a basic understanding of genomic technology to its practical use in the aquaculture industry

Genetic Analysis of Complex Disease Jonathan L. Haines,Margaret A. Pericak-Vance,2006-05-05 Provides a comprehensive introduction to the various strategies designs and methods of analysis for the study of human genetic disease It offers a broad based understanding of the problems and solutions based on successful applications in the design and execution of gene mapping projects Chapters present clear and easily referenced overviews of the broad range of considerations involved in genetic analysis of human genetic disease including design sampling data collection linkage and association studies and social legal and ethical issues Incorporating all new discussion questions and practical examples within each chapter the book significantly updates treatment of bioinformatics multiple comparisons sample size requirements parametric linkage analysis case control and family based approaches and genomic screening It covers new methods for analysis of gene gene and gene environmental interactions and features a complete rewrite of the chapter on determining genetic components of disease

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