

Genetics

Study guide

Chapter 7. Linkage

- Distinguish independent genes, complete linkage, and incomplete linkage (based on frequencies of gametes or testcross progeny).

Independent (no linkage)	Complete Linkage	Incomplete Linkage
-4 genetically different gametes in equal proportion. -Each has a different combination of alleles. 1:1:1:1 ratio	-Two genetically different gametes. -Two parental or non-crossover gametes in equal proportions. -Gene loci are close together. 1:1 ratio	-Crossing over -Two non-sister chromatids. -New allele combinations -4 different gametes -2 parental in = prop. (together >50%) -2 recombinant (<50%) Deviation from 1:1:1:1

Number of linkage groups = haploid number of chromosomes.

- Calculate genetic distance and gene order based on recombination frequency.

$R\% = \frac{\text{Number of recombinants}}{\text{Total number of progeny}} \times 100$

Number of recombinants always sum of 2 numbers.

If >50cM, crossover is expected to occur and behave as independent.

Farther apart: random crossover.

- Distinguish coupling vs. repulsion (allele arrangement, types and frequencies of gametes and testcross progeny). Be able to apply to complete linkage and to incomplete linkage.

Coupling	Repulsion
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High School Genetics Study Guide

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Table of Contents High School Genetics Study Guide

1. Understanding the eBook High School Genetics Study Guide
 - The Rise of Digital Reading High School Genetics Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying High School Genetics Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an High School Genetics Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from High School Genetics Study Guide

- Personalized Recommendations
- High School Genetics Study Guide User Reviews and Ratings
- High School Genetics Study Guide and Bestseller Lists
- 5. Accessing High School Genetics Study Guide Free and Paid eBooks
 - High School Genetics Study Guide Public Domain eBooks
 - High School Genetics Study Guide eBook Subscription Services
 - High School Genetics Study Guide Budget-Friendly Options
- 6. Navigating High School Genetics Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - High School Genetics Study Guide Compatibility with Devices
 - High School Genetics Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of High School Genetics Study Guide
 - Highlighting and Note-Taking High School Genetics Study Guide
 - Interactive Elements High School Genetics Study Guide
- 8. Staying Engaged with High School Genetics Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers High School Genetics Study Guide
- 9. Balancing eBooks and Physical Books High School Genetics Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection High School Genetics Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine High School Genetics Study Guide
 - Setting Reading Goals High School Genetics Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of High School Genetics Study Guide

- Fact-Checking eBook Content of High School Genetics Study Guide
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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