

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.

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

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

SA Adler



High School Genetics Study Guide:

The Enigmatic Realm of **High School Genetics Study Guide**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **High School Genetics Study Guide** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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