

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

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High School Genetics Study Guide:

Reviewing **High School Genetics Study Guide**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**High School Genetics Study Guide**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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