

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
<ul style="list-style-type: none">-4 genetically different gametes in equal proportion.-Each has a different combination of alleles. <p>1:1:1:1 ratio</p>	<ul style="list-style-type: none">-Two genetically different gametes.-Two parental or non-crossover gametes in equal proportions.-Gene loci are close together. <p>1:1 ratio</p>	<ul style="list-style-type: none">-Crossing over-Two non-sister chromatids.-New allele combinations-4 different gametes-2 parental in = prop. (together >50%)-2 recombinant (<50%) <p>Deviation from 1:1:1:1</p>

Number of linkage groups = haploid number of chromosomes.

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

RF (%) = Number of recombinants/Total number of progeny x 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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