

NOTES ON GENETICS: GENETIC LINKAGE AND GENE MAPPING, CENTRAL MOLECULAR DOGMA OF GENETICS, GENE REGULATION

Only 2 of the 3 traits particularly body color and eye color and we will be getting the phenotypes:

Gray body, red eyes	1159	
Yellow body, white eyes	1017	
Gray body, white eyes	17	} Recombinant offspring
Yellow body, red eyes	12	
Total	2205	

Morgan concluded that due to crossing over, the homologous X chromosomes can exchange segments and create a new arrangement which we call as **RECOMBINANTS**.

Morgan's interpretation:



Explains the observed traits based on the experiment of Morgan

Double cross-over if there are 3 traits

RECOMBINANT OFFSPRING

Pairing of traits into body color-eye color and then eye color- wing size:

Gray body, red eyes	1159	
Yellow body, white eyes	1017	
Gray body, white eyes	17	} Recombinant offspring
Yellow body, red eyes	12	
Total	2205	

Red eyes, long wings	770	
White eyes, miniature wings	716	
Red eyes, miniature wings	401	} Recombinant offspring
White eyes, long wings	318	
Total	2205	

Eye color- in between genes.

- There is a substantial difference in the frequency of the two recombinants
 - 17 + 12 = 29 for body color-eye color (much less=nearer)

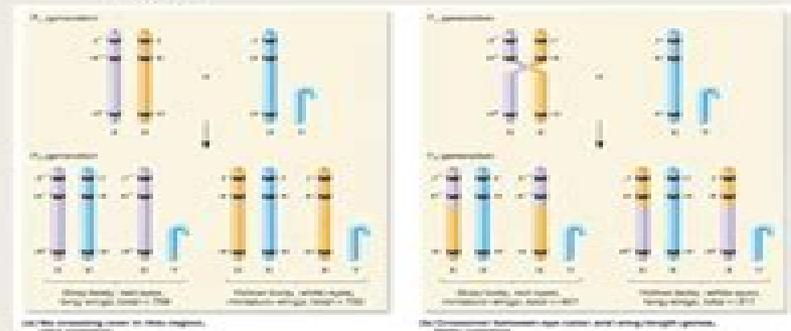
- 401 + 318 + 719 for eye color-wing size
- He proposed that the likelihood for cross-over is dependent on how far apart the two genes are from each other
- The longer the distance of the two genes, the more likely crossing-over to occur between them, hence, the greater frequency of their expression.
- The degree of crossing over, is directly proportional to the two genes; the farther apart, greater chance to cross-over

PARENTALS

- There would be no crossing over

SCO or Single Cross-over

- More numerous as further apart from each other



Double cross-over

- Cross-over between both genes. Y+ W, M+
- The more numerous is the parentals, the least would be the DCO, in between are the SCO (less frequency)

GENE MAPPING

- The recombination frequency is constant for any pair of linked loci and represents the "genetic" distance between them
- Each map unit (1 mu) is the distance that will generate 1% recombination equivalent
- A map unit is also known as **centimorgan** (1 cM) in honor of Thomas Hunt Morgan who pioneered the genetic linkage study

Gene Linkage And Mapping Study Guide

E Durkheim



Gene Linkage And Mapping Study Guide:

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