

CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s)	Project Number
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Project Title	
A Link to the Future	
Objectives/Goals Abstract	
Given three linked loci, yellow body (y), a rough eye known as ech their frequency of recombination and thus the distance between the chromosome?	
Methods/Materials Drosophila melanogaster were used as experimental subjects. Test were evaluated.	crosses were performed and the results
Results The distances expressed in terms of percent of recombination have = 24.9, and ec - ct = 20.3. This shows that the sequence along the c Conclusions/Discussion The genes are arranged in a linear fashion along the chromosome as	chromosome is y, ec, ct.
between them reflects their relative positions. The frequency of rec measure of distance between the pairs of genes, and their linear dist chromosome can form the basis of a genetic map.	combination can also be used as a
Summary Statement My project is about the frequency of recombination between specif melanogaster.	ïc gene loci in Drosophila
Help Received I received help from local high schools and college in specific prob	lem areas.