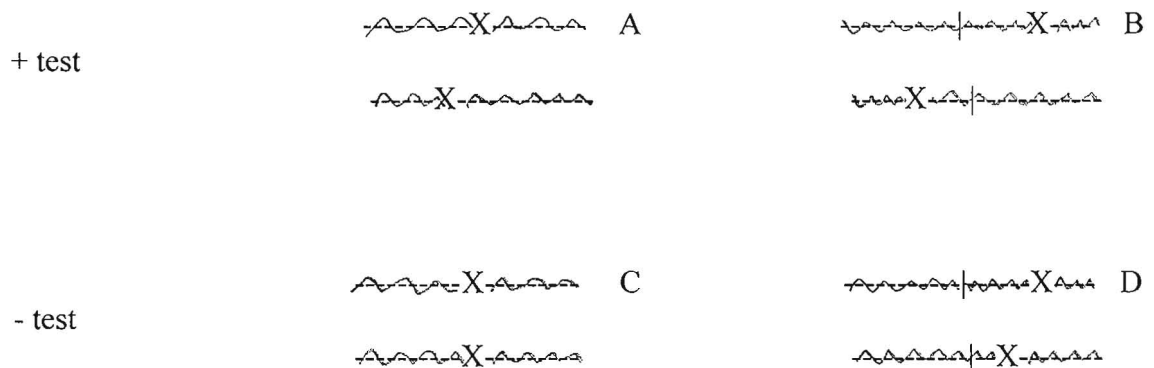


## COMPARISON OF RECOMBINATION AND COMPLEMENTATION

	<b>Recombination</b>	<b>Complementation</b>
What + test means	Mutations are in different spots	Mutations are in different genes (cistrons)
Does DNA change?	Yes	No
What Interacts?	DNA	Gene Products (Usually proteins)
Efficiency	Low	High
Must 2 Copies of DNA Remain?	No	Yes

### What Does DNA look like?



**Another way to put all this: What are the Question(s)?**

**Recombination:** If you put 2 (defective) copies together, can you ever get back function? Can you make a good copy of the DNA by cutting and splicing the two defective DNA's? Are the two defects in the same section of DNA?

**Complementation:** If you put 2 (defective) copies together, can you get back function without cutting and splicing the two DNA's? Do you get function back every time? Can gene products (not genes) co-operate to restore function? Are the two defects in the same functional unit (gene or cistron)?