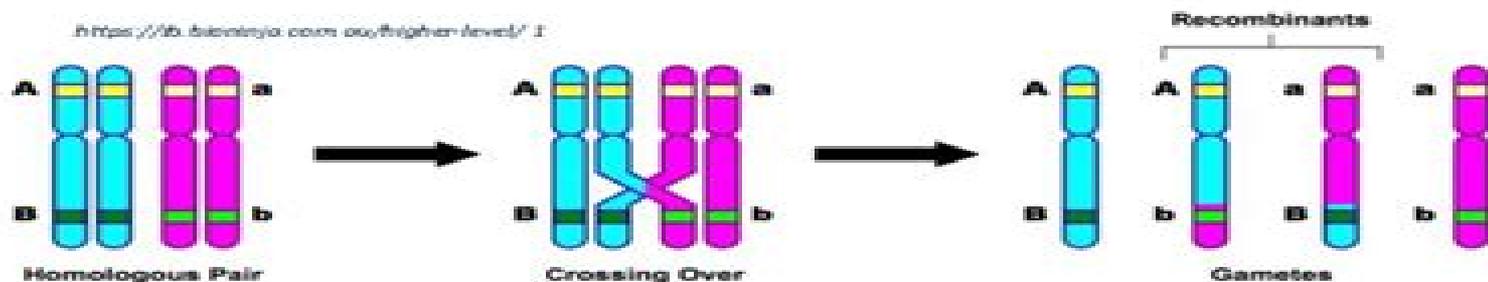


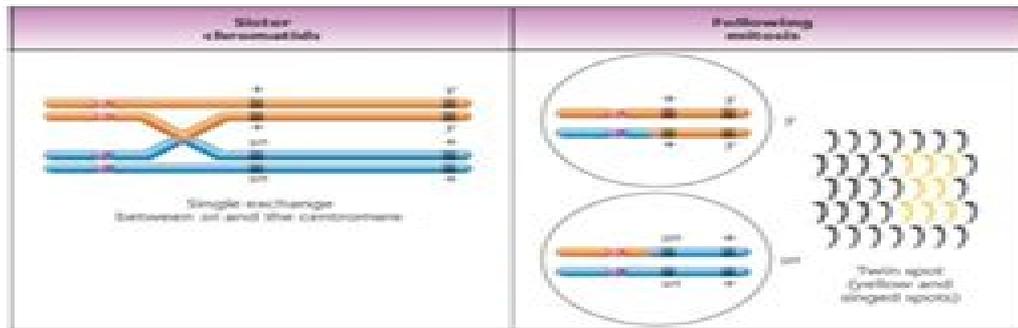
## Understanding Gene Linkage

Gene linkage refers to the phenomenon where genes that are located close to each other on the same chromosome tend to be inherited together. This is significant in genetics as it challenges the principle of independent assortment proposed by Mendel.

- **Physical Connection:** Genes that are physically connected on a chromosome are more likely to be inherited together, which is the basis of linkage mapping.
  - Linkage groups in humans consist of 22 autosomal linkage groups (for each of the 22 chromosomes) plus an X and Y chromosome linkage group
- **Transmission as a Group:** Linked genes are transmitted as a group during meiosis, which can affect the genetic variation in offspring.
- **Recombination Events:** Crossing over during meiosis can lead to recombination, where linked genes can be separated, leading to new allele combinations. This process occurs during pachytene of prophase I of meiosis, where homologous chromosomes exchange segments, leading to recombination.



- In very rare cases recombination may occur during mitosis, evidence of a mitotic recombination event can be seen in "twin spotting." Twin spotting is considered strong evidence of a mitotic recombination event, as it indicates the presence of two distinct cell populations arising from a single cell where a crossover occurred during mitosis, resulting in visibly different patches of tissue within an organism due to the different genetic makeup of those cell populations



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*Study Guide for Genetics, Third Edition, Daniel L. Hartl* Rowland H. Davis, Stephen J. Weller, John P. Carulli, 1994

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