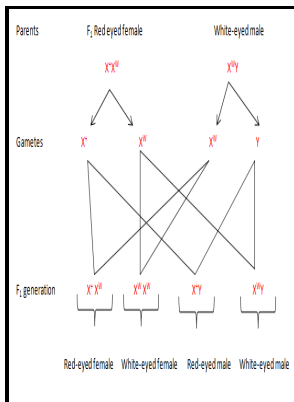


Sex-linked inheritance in Drosophila

Carnegie Institution of Washington - Sex determination and sex linked inheritance



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Sex determination and sex linked inheritance

The x-linked type sex inheritance is performed by those genes which are localized in the non-homologous section of x chromosome and that have no corresponding allele on Y-chromosome. The x linked genes are commonly known as sex linked genes.

Sex determination and sex linked inheritance

He predicted and observed that half of the flies would be red-eyed females and the other half would be white-eyed males.

Sex Linked Inheritance: Sex

When these red eyed female individuals and white eyed male individuals from F 1 generation are intercrossed, female population in F 2 generation will consist of 50% red eyed and 50% white eyed individuals.

Sex determination and sex linked inheritance

If a reciprocal cross is performed between white eyed female and red eyed male individual, all female individuals in F t generation are red eyed and all male individuals, are white eyed. In both genic sex determination and chromosomal sex determination, sex is controlled by individual genes; the difference is that, with chromosomal sex determination, the chromosomes also look different in males and females. ADVERTISEMENTS: Queen was heterozygous for X chromosome.

Sex

ADVERTISEMENTS: iii Certain genes are found to occur in both X and Y chromosomes. Similarly the male population in this generation consists of 50% red eyed and 50% white eyed individual Fig.

Sex linkage in Drosophila

He recognized that the eye-color alleles are present only on the X chromosome; no homologous allele is present on the Y chromosome.

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