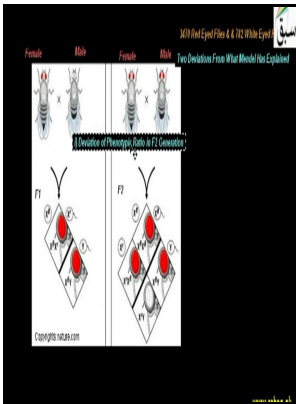


Sex-linked inheritance in Drosophila

Carnegie Institution of Washington - Sex linked Inheritance in Drosophila



Description: -

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Philosophy, Spanish -- 20th century
Research -- Canada -- Finance
Research and development tax credit -- Law and legislation --
Canada
Drosophila
HereditySex-linked inheritance in Drosophila
-
no. 237
Carnegie Institution of Washington publicationSex-linked inheritance
in Drosophila
Notes: Bibliography: p. 86-87.
This edition was published in 1916



Filesize: 46.57 MB

Tags: #Sex #Linked #Inheritance: #Sex

Sex

To investigate the inheritance of the white-eyed characteristic in fruit flies, Morgan systematically carried out a series of genetic crosses. 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.

Sex Linked Inheritance in Drosophila

X c X c Female with colour blindness very rare e.

Sex Linked Inheritance: Sex

If a trait, like eye color, correlated with a specific factor on the X chromosome, then the trait was called X-linked. Further male and females in the progeny show identical ratios. Males and females differ in their sex chromosomes; so the pattern of inheritance for sex-linked characteristics differs from that exhibited by the Chromosomes.

“Sex Limited Inheritance in Drosophila” (1910), by Thomas Hunt Morgan

The females were all red eyed whereas 50% males were white eyed and the remaining 50% males were red eyed as in the figure: 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.

Sex Linked Inheritance in Drosophila

In human many diseases are x y linked. Then, about 6 weeks after fertilization, a gene on the Y chromosomes becomes active. The term sex refers to sexual phenotype.

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