

Male Or Female Chromosomes

carry the genes that determine the sex of an individual. The human sex chromosomes are a typical pair of mammal allosomes. They differ from autosomes in form, size, and behavior. Whereas autosomes occur in homologous pairs whose members have the same form in a diploid cell, members of an allosome pair may differ from one another. 36f6c7afac == Overview == 36f6c7afac Nettie Stevens and Edmund Beecher Wilson both independently discovered sex chromosomes in 1905. However, Stevens is credited for discovering them earlier than Wilson. 36f6c7afac

Male It is also possible in a variety of species, including humans, to be XX male or have other karyotypes. (as opposed to XX in females) sex chromosomes 36f6c7afac

In this system, the karyotypic sex of an individual is usually determined by a pair of sex chromosomes. Typically, karyotypic females have two of the same kind of sex chromosome (XX), and are called the homogametic sex. Karyotypic males typically have two different kinds of sex chromosomes (XY), and are called the heterogametic sex. In humans, the presence of the Y chromosome is responsible for triggering male phenotypic development; in the absence of the Y chromosome, the individual will usually develop phenotypically female. In most species with XY sex determination, an organism must have at least one X chromosome in order to survive. 36f6c7afac == Etymology and usage == 36f6c7afac

Male reproductive system Female sex is determined by the absence of a Y chromosome. Y chromosome paired with an X chromosome. Some individuals are male who have the XX male syndrome 36f6c7afac

XY sex-determination system Karyotypic males typically The XY sex-determination system is a sex-determination system present in many mammals (including humans), some insects (*Drosophila*), some snakes, some fish (guppies), and some plants (*Ginkgo tree*). sex chromosomes. Typically, karyotypic females have two of the same kind of sex chromosome (XX), and are called the homogametic sex 36f6c7afac

X chromosome It is a part of the XY. The X chromosome is one of the two sex chromosomes in many organisms, including mammals, and is found in both males and females 36f6c7afac

== Mechanisms == 36f6c7afac By convention, when sex-determination is karyotypically determined (i.e. when there are sex chromosomes), the homogametic sex chromosome is called "X" if two copies of it (heterogamety) leads to a female phenotype, and "Z" if two copies of it leads to a male phenotype. If the other sex has a different, sex-specific chromosome (heterogametic), this other sex chromosome is called "Y" or "W" respectively. If there is none, it is called "O" or

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"0". The naming of the sex chromosomes is purely based on its effect on an organism... 36f6c7afac

Y chromosome In mammals, the Y chromosome contains the SRY gene, which usually triggers the differentiation of male gonads. Along with the X chromosome, it is part of the XY sex-determination system, in which the Y is used for sex-determining as the presence of the Y chromosome typically causes offspring produced in sexual reproduction to develop phenotypically male. In mammals The Y chromosome is one of two sex chromosomes in therian mammals and other organisms. pair of sex chromosomes in each cell. The Y chromosome is typically only passed from male parents to male offspring. Males usually have one Y chromosome and one X chromosome, while females usually have two X chromosomes 36f6c7afac

Biological sex Other chromosomal sex-determination. system, where the male usually carries an X and a Y chromosome (XY), and the female usually carries two X chromosomes (XX) 36f6c7afac

A female has larger gametes than a male. Females and males are results of the anisogamous reproduction system, wherein gametes are of different sizes (unlike isogamy where they are the same size). 36f6c7afac == Nomenclature and glossary == 36f6c7afac

Sex chromosome Sex chromosomes (also referred to as allosomes, heterotypical chromosome, gonosomes, heterochromosomes, or idiochromosomes) are chromosomes that carry Sex chromosomes (also referred to as allosomes, heterotypical chromosome, gonosomes, heterochromosomes, or idiochromosomes) are chromosomes that 36f6c7afac

Pronucleus It is noteworthy that the male and female pronuclei. of chromosomes present in somatic cells, with 23 chromosomes compared to the 46 found in somatic cells 36f6c7afac

In species that have males and females, sex-determination may be based on either sex chromosomes, or environmental conditions. Most female mammals, including female humans, have two X chromosomes. Characteristics of organisms with a female sex vary between different species, having different female reproductive systems, with some species showing characteristics secondary to the reproductive system, as with mammary glands in mammals. 36f6c7afac

XX male syndrome Females typically have two X chromosomes. Of the. occur. Males typically have one X chromosome and one Y chromosome in each diploid cell of their bodies 36f6c7afac

In humans, the word female can also be used to refer to gender in the social sense of gender role or gender identity. 36f6c7afac

Female Most female mammals, including female humans An organism's sex is female (symbol: ♀) if it produces the ovum (egg cell), the type of gamete (sex cell) that fuses with the male gamete (sperm cell) during sexual reproduction. have males and females, sex-determination may be based on either sex chromosomes, or environmental conditions 36f6c7afac

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The XY system contrasts in several ways with the ZW sex-determination system found in birds, some insects, many reptiles, and various other animals, in which the heterogametic sex is female. A temperature-dependent sex determination system is found in some reptiles and fish. 36f6c7afac All animals have a genome made of DNA, which forms chromosomes during... 36f6c7afac

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