

Free download Biology guide human chromosomes (PDF)

Human chromosomes in humans can be divided into two types: autosomes and sex chromosomes. Autosomes are body chromosomes and autosomes contain the rest of the genetic hereditary information. The human genome is a complete set of nucleic acid sequences for humans encoded as DNA within the 23 chromosome pairs in cell nuclei and in a small DNA molecule found within individual mitochondria. These are usually treated separately as the nuclear genome and the mitochondrial genome.

Chromosomes are thread-like structures located inside the nucleus of animal and plant cells. Each chromosome is made of protein and a single molecule of deoxyribonucleic acid (DNA) passed from parents to offspring. DNA contains the specific instructions that make each type of living creature unique.

Chromosomes are threadlike structures made of protein and a single molecule of DNA that serve to carry the genomic information from cell to cell in plants and animals, including humans. Chromosomes reside in the nucleus of cells.

The microscopic threadlike part of the cell that carries hereditary information in the form of genes. A defining feature of any chromosome is its compactness. The 46 chromosomes of a human cell are organized into 23 pairs, and the two members of each pair are said to be homologues of one another, with the slight exception of the X and Y chromosomes.

Humans have 23 pairs of chromosomes. The first 22 pairs are called autosomes; the last pair are called sex chromosomes, and they are different between males and females. Most females have two X chromosomes (XX) and most males have an X and a Y (XY). Most other species have different numbers of chromosome pairs than we do.

In humans, each cell normally contains 23 pairs of chromosomes for a total of 46. Twenty-two of these pairs, called autosomes, look the same in both males and females. The 23rd pair, the sex chromosomes, differ between males and females. Females have two copies of the X chromosome, while males have one X and one Y.

The human chromosomes: a new era in cytogenetics. The field of investigation concerned with studies of the chromosomes began in 1956 with the discovery by Johansson and Levan that human somatic cells contain 23 pairs of chromosomes. Thus, this topic is all about chromosomes: chromosome structure and composition, the methods that scientists use to analyze chromosomes, chromosome abnormalities associated with disease.

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Human chromosomes in humans can be divided into two types autosomes body chromosome s and allosome sex chromosome s certain genetic traits are linked to a person s sex and are passed on through the sex chromosomes the autosomes contain the rest of the genetic hereditary information

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