

Chromosomes Study Guide

Chromosome is a constituent in the nucleus of the cell. It is made of DNA and is a storehouse of genetic information.

Introduction:

The world of genetics is fascinating. The amount of information stored in a human body cell is marvelous. Everything is packed concisely and accurately within unique structures called chromosomes. These chromosomes are involved in cell division and replication.

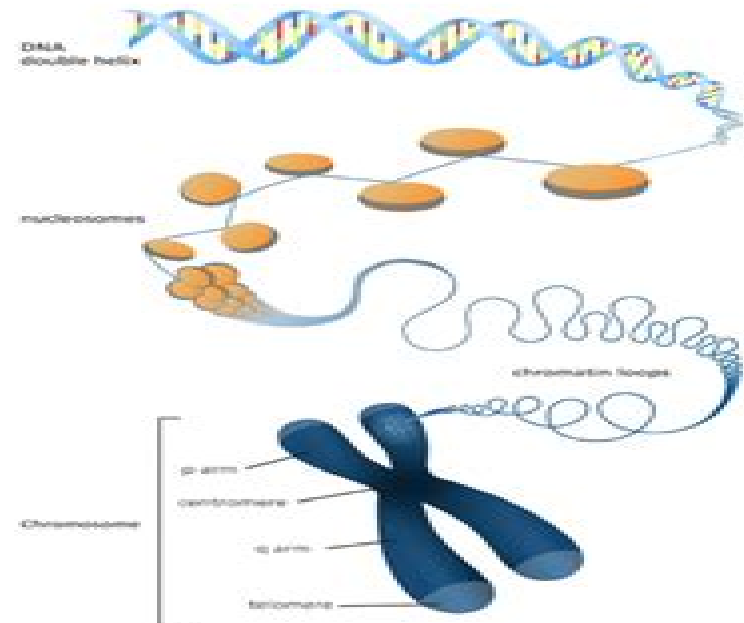
The word chromosome comes from two Greek words. Chroma refers to the color, and Soma refers to the body observed. So chromosome was named so when it was observed as a colorful body under the microscope.

The genetic material which is a constituent of every cell is the chromosome. Each cell has a chromosome which is the coiled DNA, and Histone, which is tightly packed and arranged. These chromosomes carry all the information of the genetic traits of a cell. During reproduction, these traits get expressed. It is responsible for passing information about the body makeup to the child and also determines the intra and interspecies variation.

What are chromosomes?

Chromosome pairs are thread-like structures that human DNA makes. Deoxyribonucleic acid is responsible for the instructions which make a person's genetic constitution unique. This is the basic chromosome definition.

These are found in the nucleus of the human cell and are the source of genetic information and carriers. They aren't easily visible in a cell, and they can be observed under the microscope when cells are rapidly dividing. These chromosomes host all the genetic information. This genetic information is the particular trait each person inherits. This is responsible for variations amongst each individual.



Human chromosomes are found in the nucleus of the cells, and they can be identified and observed under the microscope when a cell undergoes division.

Work of chromosomes

Human Chromosomes are responsible for packaging human DNA, and it is an important contributor to the cell cycle and provides the relevant material to all the dividing cells. Any change in numbers and the structure of the chromosome can cause abnormalities. The human baby receives 1 copy of the chromosome each from the mother and father.

Different types of chromosomes

There are four major types of chromosome examples. These are divided based on the position of the centromere. These include metacentric chromosomes, submetacentric chromosomes, acrocentric chromosomes, and telocentric chromosomes.

Human Chromosomes Study Guide

Wenbin Ji

A decorative red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the author's name.

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