

Name: _____

Mitosis and Meiosis Study Guide

Mitosis:

DIPLOID

a. What does diploid mean?

A cell that has two matched sets of chromosomes in the cell nucleus, one set from each parent (2n). (46 in humans)

b. Are most human cells diploid?

Yes. All somatic cells

c. How many pairs of homologous chromosomes are present in a human somatic cell?

23 pairs

d. What is the best description of homologous chromosomes?

(choose the best response)

(1) they are the same size and shape

(2) they contain the same types of genes in the same order

(3) they generally contain different versions (alleles) of many of their genes

(4) all of the above

e.. Define homologous chromosome.

Homologous chromosomes are chromosomes that are paired during meiosis. They consist of four chromatids. One pair comes from the father and the other, from the mother

f. Contrast gene and allele.

Gene-A segment of the DNA that codes for a specific trait.

Allele-An allele is one of two or more forms of a gene (one from father and one from mother)

INTERPHASE

a. How do sister chromatids differ from chromosomes?

Sister chromatids are two identical copies of a chromatid connected by a centromere. (Copied during the S-Phase)

b. What is the centromere?

Links sister chromatids. Spindle fibers connect to the centromeres.

c. Contrast chromatin and chromosome.

Chromatin is thin threadlike genetic material that is present during most of the cell's life cycle.

A Chromosome is condensed genetic material that is present during mitosis and can be seen by a microscope.

d. What is the main role of INTERPHASE?

Cell growth and development. It is most of the cell's life cycle.

e. What occurs in the SPhase and why is it important?

DNA replication. The amount of DNA must double so that the cell has the appropriate number of chromosomes after mitosis.

Mitosis And Meiosis Genetics Study Guide

Ian Pickup



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