

Chapter 13: Meiosis and Sexual Life Cycles

Concept 13.1 Offspring acquire genes from parents by inheriting chromosomes

- Let's begin with a review of several terms that you may already know. Define:

gene: A discrete unit of hereditary information consisting of a specific nucleotide sequence in DNA (or RNA, in some viruses)

locus: A specific place along the length of a chromosome where a given gene is located 

gamete: A haploid reproductive cell, such as an egg or sperm. Gametes unite during sexual reproduction to produce a diploid zygote.

male gamete: Sperm

female gamete: Eggs

asexual reproduction: The generation of offspring from a single parent that occurs without the fusion of gametes (by budding, division of a single cell, or division of the entire organism into two or more parts). In most cases, the offspring are genetically identical to the parent.

sexual reproduction: A type of reproduction in which two parents give rise to offspring that have unique combinations of genes inherited from both parents via the gametes

- How many chromosomes are in human cells? What is a chromosome?

There are 46 chromosomes in human somatic cells. A *chromosome* is a cellular structure carrying genetic material, found in the nucleus of eukaryotic cells. Each chromosome consists of one very long DNA molecule and associated proteins.

- Which type of reproduction will result in genetically identical offspring?

Asexual reproduction

Concept 13.2 Fertilization and meiosis alternate in sexual life cycles

- What is a *somatic cell*? Give examples of two human somatic cell types.

A *somatic cell* is any cell in a multicellular organism except a sperm or egg or their precursors. Examples may vary but could include bone cells, skin cells, blood cells, etc.

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