

Inquiry Into Life, by Mader, 15th ed.

Chapter 5 Outline

I. Cell division in prokaryotes

- A. Asexual reproduction via binary fission also referred to as binary (prokaryotic) fission

II. Maintaining chromosome number in eukaryotic cells - Mitosis

A. Chromatin vs. chromosomes

1. Histones are protein "spools" that DNA winds around to help keep itself organized
2. Chromatin - form of DNA when cell is not actively undergoing division; relatively "loose and disorganized" strands
3. Chromosomes - the form of DNA when cell is actively undergoing division; coiled, shortened and thickened
 - a) Highly organized!
4. Chromatid - one leg of the chromosome
 - a) Before replication you have a chromosome consisting of 1 chromatid
 - b) When replicated you have 1 chromosome in the form of 2 sister chromatids

B. Diploid number of chromosomes

1. Somatic cells - non-reproductive cells contain the diploid number of chromosomes; the full complement (number) of chromosomes for that particular species

C. Haploid number of chromosomes

1. Gametes - sex cells - egg and sperm contain half the number (haploid number) of chromosomes as the somatic cells
2. Meiosis (of germ cells) is the nuclear division that results in the formation of gametes

D. Mitosis is the nuclear divisional process by which chromosome number remains the same; (diploid \Rightarrow diploid or haploid \Rightarrow haploid)

1. DNA replication
 - a) Results in formation of sister chromatids joined together at the centromere
 - b) Just prior to mitosis a chromosome consists of two sister chromatids (identical) held together at centromere

Inquiry Into Life Chapter 1

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