

Summary
Introduction

THE KEY ROLES OF CELL DIVISION

Intro

Cell division functions in reproduction, growth, and repair

1. Explain how cell division functions in reproduction, growth, and repair.
 - a. Single-celled and other organisms reproduce asexually by cell division
 - i. Asexual spores
 - ii. Binary fission in bacteria
 - iii. Growth, breakage, and establishment of vines
 - b. Growth may increase the sizes or numbers of cells
 - c. Wounding releases growth factors that stimulate mitosis

Cell division distributes "identical" sets of chromosomes to daughter cells

2. Describe the structural organization of the genome.
 - a. Organisms may have hundreds to tens of thousands of genes
 - b. Genes, controlling sequences, spacers, and junk are strung on chromosomes
 - c. Chromosome numbers
 - i. Bacteria may have one or a few circular or linear chromosomes
 - ii. Eukaryotes may have one to >1000 linear chromosomes
 - iii. Members of species tend to have characteristic chromosome numbers
3. Describe the major events of cell division that enable the genome of one cell to be passed to two daughter cells.
 - a. Immediately after mitosis each chromosome is a single DNA
 - b. DNA replication makes two attached copies
 - c. As cells enter mitosis the doubled, X-shaped chromosomes condense
 - d. At anaphase the two copies, the chromatids separate
4. Describe how the chromosome number changes throughout the human life cycle.
 - a. n = haploid number = 23 for humans
 - b. Fertilization: sperm (n) + egg (n) \rightarrow zygote ($2n$)
 - c. Mitosis: zygote ($2n$) \rightarrow body cells ($2n$) + germ cells ($2n$)
 - d. Meiosis: germ cells ($2n$) \rightarrow sperm (n) + egg (n)

THE "MITOTIC" CELL CYCLE

The mitotic phase alternates with interphase in the cell cycle: an overview

5. List the phases of the cell cycle and describe the sequence of events that occurs during each phase.
 - a. Interphase = 90% of the cell cycle
 - b. Growth in size and number of organelles is continuous
 - c. Phases
 - i. G_1 immediately follows mitosis
 - ii. DNA replication occurs during the S or synthetic phase
 - iii. G_2 is between S and mitosis

The mitotic spindle distributes chromosomes to daughter cells: a closer look

6. List the phases of mitosis and describe the events characteristic of each phase.
 - a. Prophase
 - i. Chromosomes condense
 - ii. Cytoskeleton reorganizes into two (centrioles separate in animals)
 - iii. Nucleolus disappears
 - iv. Nuclear membrane disassembled

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