

Ebook free Chapter 4 cell reproduction (PDF)

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mitosis definition stages diagram facts britannica

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what is mitosis how are mitosis and meiosis different why is mitosis important to organisms divide into four phases the reproduction process of chromosomes in plant and animal cells mitosis has four stages prophase metaphase anaphase and telophase see all videos for this article

cell division mitosis and meiosis ask a biologist

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when cells divide they make new cells a single cell divides to make two cells and these two cells then divide to make four cells and so on we call this process cell division and cell reproduction because new cells are formed when old cells divide the ability of cells to divide is unique for living organisms

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this chapter introduces two types of cell divisions first it explains mitosis and then meiosis this chapter also explains why cells divide and how the divisions are regulated

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new organisms don't just appear out of nowhere they are the result of reproduction in this unit we'll learn about sexual and asexual reproduction fertilization and development we'll also explore mitosis and meiosis which are the cellular processes that allow organisms to grow and reproduce

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meiosis contains two separate cell divisions meaning that one parent cell can produce four gametes eggs in females sperm in males in each round of division cells go through four stages prophase metaphase anaphase and telophase

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cells on the path to cell division proceed through a series of precisely timed and carefully regulated stages of growth dna replication and division that produces two identical clone cells the cell cycle has two major phases interphase and the mitotic phase

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this guide is designed to provide you with an overview of the important processes involved in the

reproduction of cells cellular reproduction is a process by which cells duplicate their contents and then divide to yield two cells with similar if not duplicate contents

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14 1 cell cycle and cell division cell division is the process in which one cell called the parent cell divides to form two new cells referred to as daughter cells how this happens depends on whether the cell is prokaryotic or eukaryotic

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four major types are 1 binary fission single parent cell doubles its dna then divides into two cells usually occurs in bacteria prokaryotic cell undergoing the process of binary fission image modified from wikimedia cc by sa 3 0 2 budding small growth on surface of parent breaks off resulting in the formation of two individuals

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fertilisation happens when an egg cell meets with a sperm cell and joins with it the fertilised egg divides to form a ball of cells called an embryo the embryo attaches to the lining of the

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reproduction is one of the most important concepts in biology it means making a copy a likeness and thereby providing for the continued existence of species learn more about the process of reproduction in this article

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chapter outline 1 1 the science of biology 1 2 themes and concepts of biology viewed from space earth offers no clues about the diversity of life forms that reside there scientists believe that the first forms of life on earth were microorganisms that existed for billions of years in the ocean before plants and animals appeared

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every cell in your body except sex cells has a nucleus with 46 chromosomes 23 pairs this is because you began as one cell with 46 chromosomes in its nucleus skin cells produced to replace or repair your skin have the same 46 chromosomes as the original single cell you developed from

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1 the fusion of gametes to produce a new cell or zygote 2 a kind of cell division involving halving the chromosome number 3 the male gamete 4 the new genetic combinations of information which take place as a result of meiosis 5 sex cell 6 having a single complete set of chromosomes

phases of the cell cycle article khan academy

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mitosis takes place in four stages prophase sometimes divided into early prophase and prometaphase metaphase anaphase and telophase you can learn more about these stages in the video on mitosis in cytokinesis the cytoplasm of the cell is split in two making two new cells

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cells on the path to cell division proceed through a series of precisely timed and carefully regulated stages in eukaryotes the cell cycle consists of a long preparatory period called interphase interphase is

divided into g1 s and g2 phases

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