

Mitosis and Meiosis

Study Guide

Write the definitions for the following vocabulary words:

1. Sexual Reproduction- the production of new living organisms by combining genetic information from two individuals of different types (sexes)
2. Sperm The male sex cell
3. Egg - The female sex cell
4. Fertilization - the fusion of male and female sex cells (gametes) to form a zygote.
5. Zygote - a diploid cell resulting from the fusion of two haploid gametes (sperm and egg)
6. Diploid - a cell or nucleus containing two complete sets of chromosomes, one from each parent.
7. Haploid- a cell or nucleus that has a single set of unpaired chromosomes
8. Meiosis - a type of cell division that results in four daughter cells each with half the number of chromosomes of the parent cell.
9. Where do new cells come from? Existing Cells
10. Why does the body ~~constantly~~ continually make new cells? Replacement & Growth

11. Why must each new cell get a complete copy of the original cell's DNA?
If they didn't get the exact DNA instructions and it would cause a mutation. (Not function properly)
12. The original cell that divides is called the mother cell, while the two, new identical cells are called Daughter cells.
13. What is asexual reproduction?
Asexual reproduction- when an offspring is produced by one parent.
14. Give two examples of asexual reproduction.
 - 1) Budding, Binary Fission, or Regeneration
 - 2) _____
15. Which process produces identical new cells? Mitosis

Study Guide Meiosis Answer Key

Guillaume Favre

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

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