

Study Guide for Cell Cycle

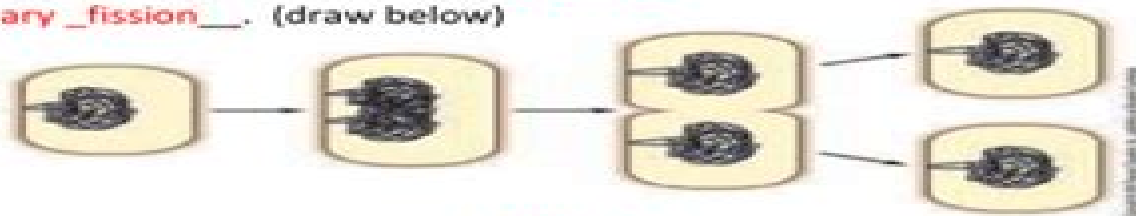
Cell Division Notes:

- There are 3 main reasons why cells need to divide:
 1. To replace worn out cells
 2. To replace damaged cells
 3. Growth and Development

- Before a cell can divide, it must do two things:
 1. Copy DNA
 2. Copy OrganellesBut why?

So that each new cell has a complete set of DNA and organelles

- Organisms with prokaryotic cells (bacteria) do a very simple process of dividing called binary fission. (draw below)



- However, eukaryotic organisms (like us!) go through a much more complicated process called the cell cycle, which is the dividing of non-sex cells. Sex cells divide using a different process called meiosis.
- We can divide this process into 3 main steps:
 - interphase - cell grow and DNA is copied (90% of time spent here)
 - mitosis - (4 steps) steps in which the nucleus's DNA actually divides
 - cytokinesis - cytoplasm splits and cell divides making two daughter cells
- In between each phase, there are checkpoints to make sure that the cell has done everything it needs to do correctly.
- If a mistake has happened, the cell usually fixes the mistake, but if it does not catch the mistake, the cell could malfunction (not work correctly).
- If cells do not divide correctly, mutations or cancer can occur.

Cell Cycle And Division Study Guide

Vivian Manns Null



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