

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 Organelles**

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 Division Study Guide

Robert R. Redfield



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