

Study Guide for Cell Cycle

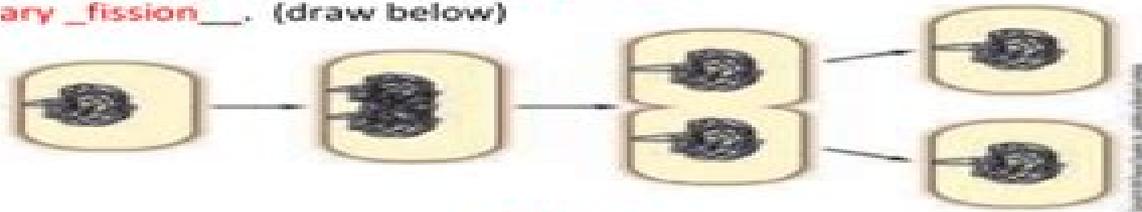
Cell Division Notes:

- 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

But 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.

Modern Biology Study Guide Cell Division

Rachel S Tattersall



Modern Biology Study Guide Cell Division:

Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through **Modern Biology Study Guide Cell Division**

In a global inundated with monitors and the cacophony of immediate communication, the profound power and psychological resonance of verbal artistry usually diminish into obscurity, eclipsed by the constant assault of noise and distractions. However, set within the lyrical pages of **Modern Biology Study Guide Cell Division**, a interesting work of fictional brilliance that pulses with organic emotions, lies an unforgettable journey waiting to be embarked upon. Composed by way of a virtuoso wordsmith, this mesmerizing opus courses readers on an emotional odyssey, softly exposing the latent potential and profound impact stuck within the intricate web of language. Within the heart-wrenching expanse of this evocative evaluation, we will embark upon an introspective exploration of the book is main themes, dissect their fascinating publishing design, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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