

10.1 Cell Growth, Division, and Reproduction

Lesson Objectives

-  Explain the problems that growth causes for cells.
-  Compare asexual and sexual reproduction.

Lesson Summary

Limits to Cell Size There are two main reasons why cells divide:

- ▶ **Information "overload":** The larger a cell gets, the more demands it places on its DNA. Eventually, the cell's DNA cannot meet the cell's needs.
- ▶ **Exchange of materials:** Cells take in nutrients and eliminate wastes through the cell membrane.
 - The larger a cell's volume, the more materials it needs to function and the more waste it creates.
 - A cell's volume increases at a faster rate than its surface area. As a cell grows, its surface-area-to-volume ratio becomes too small.
 - The larger a cell gets, the harder it is for enough materials to move across its cell membrane.
- ▶ **Cell division** solves the information overload and materials exchange problems.

Cell Division and Reproduction Cell division is part of both types of reproduction:

- ▶ **Asexual reproduction:**
 - produces genetically identical organisms.
 - occurs in many single-celled organisms and in some multicellular organisms.
 - allows rapid reproduction of organisms in favorable environments.
- ▶ **Sexual Reproduction:**
 - produces organisms with genetic information from both parents.
 - occurs in most animals and plants and in many single-celled organisms.
 - increases genetic diversity, which aids species survival in changing environments.

Limits to Cell Size

For Questions 1–4, write *True* if the statement is true. If the statement is false, change the underlined word or words to make the statement true.

- | | |
|-----------------------|--|
| <u>stays the same</u> | 1. As a cell's size increases, its amount of DNA <u>also increases</u> . |
| <u>True</u> | 2. The amount of activity in a cell is related to its <u>volume</u> . |
| <u>larger</u> | 3. The smaller the cell, the <u>smaller</u> its ratio of surface area to volume. |
| <u>True</u> | 4. The <u>information crisis</u> in a cell is solved by the replication of the DNA before cell division. |

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