

CH4 Cell Structure

1) prokaryote: 원핵생물

2) eukaryote: 진핵생물

3) cell theory:

- 모든 것은 세포로 이루어져 있음
- 기존의 cell → new cell

4) pseudogene: 위유전자

4.2 What, Exactly, Is a Cell?

Traits Common to All Cells

A. cell: the smallest unit that show the properties of life

- cells vary dramatically in shape and in function
- all cell share certain organizational and functional features

B. plasma membrane(cell membrane): an outer membrane that separates the cell's contents from its environment

☞ plasma: 세포 내 액체

- selectively permeable → allows only certain materials to cross
- controls exchanges between the cell and its environment
- all cell membranes(including the plasma membrane) → mainly of lipids

C. cytoplasm: the plasma membrane encloses a fluid or jellylike mixture of water, sugars, ions, and proteins

☞ cytoskeleton

- microtubule
- intermediate filament
- microfilament = actin filament
- protein

Ref. endoskeleton: 내골격

exoskeleton: 외골격

D. organelles(세포소기관): structures that carry out special metabolic functions inside a cell

E. nucleus(plural, nuclei): an organelle with a double membrane that contains the cell's DNA

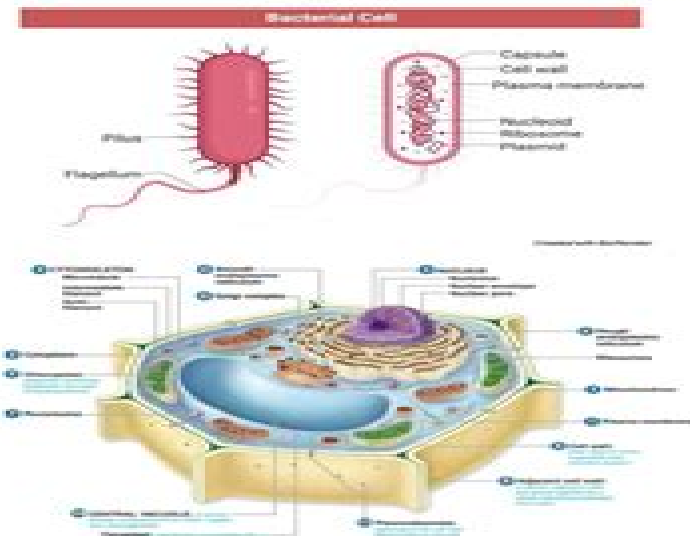
- the DNA is suspended directly in the cytoplasm → most bacteria, archaeans

Constraints on Cell Size

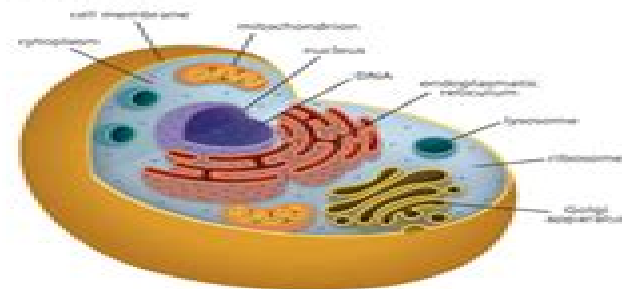
A. surface-to-volume ratio: cell size is limited by a physical relationship

- an object's volume increases with the cube of its diameter, but its surface area increases only with the square

세포 크기 ↑ 표면적의 비 ↓ - 세포의 수 ↑ 효율적



- plant cell



- animal cell

Cell Theory

A. cell theory:

- Every living organism consists of one or more cells
- The cell is the structural and functional unit of all organisms. A cell is the smallest unit of life, individually alive even as part of a multicelled organism
- All living cells come from division of preexisting cells
- cells contain hereditary material which they pass to their offspring during division

4.3 Spying on Cells

Lab Manual Answers Cell Biology Campbell Biology

Michael Rajnik



Lab Manual Answers Cell Biology Campbell Biology:

Lab Manual Answers Cell Biology Campbell Biology Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Lab Manual Answers Cell Biology Campbell Biology**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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