

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

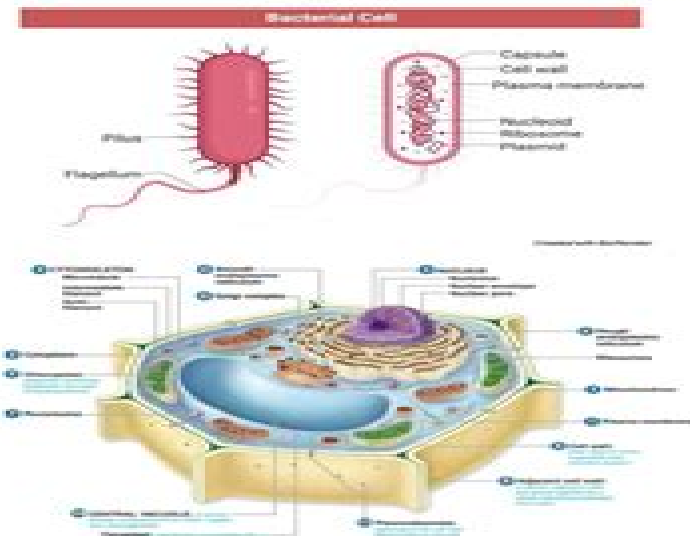
- the DNA is suspended directly in the cytoplasm → most bacteria, archaeans

Constraints on Cell Size

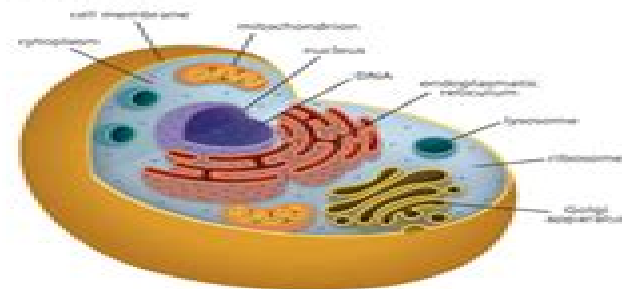
A. surface-to-volume ratio: cell size is limited by a physical relationship

- 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

Neil A. Campbell



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Laboratory Manual for Introductory Biology Carl S. Lieb, Jerry D. Johnson, Lillian F. Mayberry, Reuven Lazarowitz, 2002-06

Biology Neil A. Campbell, 2003 Accompanying CD ROM includes activities thinking as a scientist quizzes flashcards key terms and glossary **Lab Manual for Biology Labs On-line** Robert Desharnais, 2000 **Molecular Biology of the Cell**, 1999 MBC online publishes papers that describe and interpret results of original research concerning the molecular aspects of cell structure and function *The Journal of Cell Biology*, 2005 No 2 pt 2 of November issue each year from v 19 1963 47 1970 and v 55 1972 contain the Abstracts of papers presented at the Annual Meeting of the American Society for Cell Biology 3d 1963 10th 1970 and 12th 1972 *References no. 21505-25161 / AAR-ZUR* Zdenek Sesták, J. Catský, 2012-12-06

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Biochemistry, Biomolecules Donald Voet, Judith G. Voet, 2003-05-20

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Essential Biology Chapter 12 Campbell, Reece, 2003

Biology/science Materials Carolina Biological Supply Company, 1991

The American Biology Teacher, 2006

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