

# 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

- a) cells vary dramatically in shape and in function
- b) 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

- c) selectively permeable → allows only certain materials to cross
- d) controls exchanges between the cell and its environment
- e) 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

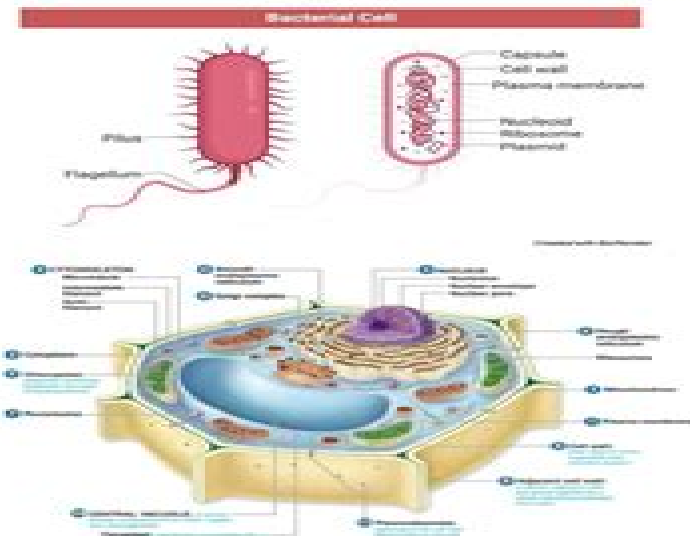
- f) the DNA is suspended directly in the cytoplasm → most bacteria, archaeans

### Constraints on Cell Size

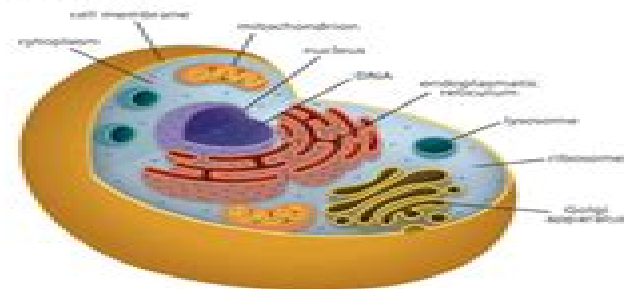
A. surface-to-volume ratio: cell size is limited by a physical relationship

- g) 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:

1. Every living organism consists of one or more cells
2. 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
3. All living cells come from division of preexisting cells
4. cells contain hereditary material which they pass to their offspring during division

## 4.3 Spying on Cells

# Mastering Biology Ch4

**VM Jensen**



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Herrmann,Randall Johnson,2020-03-26 Note to Readers Publisher does not guarantee quality or access to any included digital components if book is purchased through a third party seller Specifically designed for future healthcare providers who will diagnose manage and prescribe This advanced physiology and pathophysiology text is designed to address the specific learning needs of future nurse practitioners physician assistants and other advanced healthcare providers caring for patients across the lifespan Focusing on practical applications of physiology it facilitates in depth understanding of important pathophysiological concepts as they relate to major disorders commonly seen in clinical practice and includes comprehensive pediatric and geriatric considerations This knowledge is crucial to providing the foundation required to be an informed and confident clinical decision maker The author team includes experienced clinicians and educators nurses and nurse practitioners physician assistants doctors of pharmacy physicians and basic scientists This collaboration has produced a text that carefully details and richly illustrates the cellular structure and function of each organ system and mechanisms of associated major clinical disorders Uniquely interweaving aspects of organ function during healthy states with disease associated changes the text emphasizes and extends the basic science foundation to practical clinical applications The text promotes a deep understanding of cellular function in health and disease that provides the bedrock knowledge required to master pharmacology for prescriptive practice Equally important the solid foundation of applied pathophysiological mechanisms offered in this text prepares the student clinician to care for patients with a broad variety of disorders This

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