

BIOLOGY

THE BASIC PRINCIPLES OF BIOLOGY

Basic Concepts

Biological Science: The Study of Life

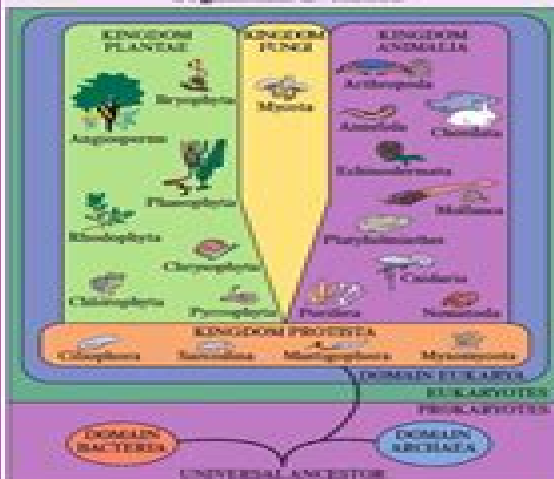
- A. The Scientific Method: How scientists study biology
1. Observe phenomena and formulate testable and falsifiable (in case they are wrong) hypotheses
 2. Test hypotheses, collect data, and analyze statistically (if necessary)
- B. What is life?
1. Characteristics: Metabolism, reproduction, growth, movement, responsiveness, complex organization.

Evolution

Concept that all organisms are related to each other by common ancestry; The unifying theme in biology.

- A. Natural Selection: A mechanism for the occurrence of evolution.
1. Survival of those offspring best adapted to the conditions in which they live.
 - a. Individuals produce sexually many more offspring than could possibly survive.
 - b. These offspring are not identical (in most situations), but show variations based on genetic differences.
 - c. Essentially, those individuals with variations that allow them to survive (i.e., adaptations) to the age of reproduction can pass their genes on to the next generation.
 - d. Thus, nature is selecting offspring and shaping the evolution of species.
 2. Charles Darwin and Alfred Wallace, 19th century biologists, formulated the concept of natural selection.

Organismal Evolution



- B. Artificial Selection: Human selects traits in offspring (ex: pets, farm crops).

Domesticated Animals



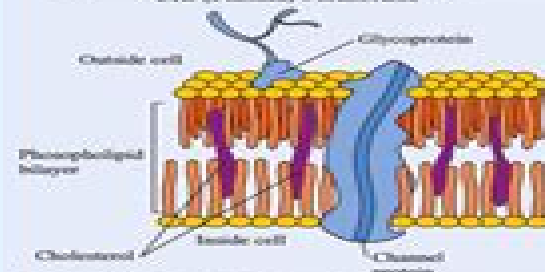
Cytology: The Study of Cells

Cell Theory:

All living things are composed of cells and come from cells.

- A. Cell Size: Small to maximize surface area to volume ratio for regulating internal cell environment.
- B. Cell (Plasma) Membrane: Composed of fluid-like phospholipid bilayer, proteins, cholesterol and glycoproteins.

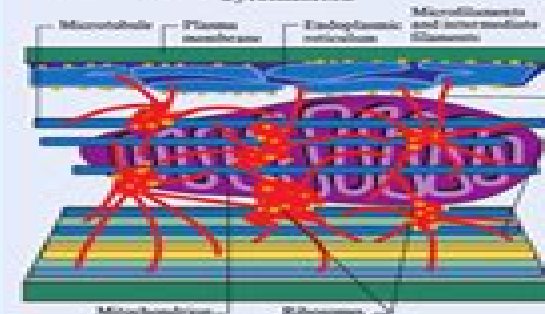
Cell (Plasma) Membrane



- C. Cell Wall: Outside of cell membrane in some organisms; composed of carbohydrate (e.g., cellulose or chitin) or carbohydrate derivative (e.g., peptidoglycan).
- D. Cytoplasm: Material outside nucleus.

1. Site for metabolic activity
 2. Cytosol: Solutions with dissolved substances such as glucose, CO_2 , O_2 , etc.
 3. Organelles: Membrane-bound subunits of cells with specialized functions
- E. Cytoskeleton: Supportive and metabolic structure composed of microtubules, microfilaments, and intermediate filaments.

Cytoskeleton



Prokaryotic Cells:

Simpler cellular organization with no nucleus or other membrane-bound organelles.



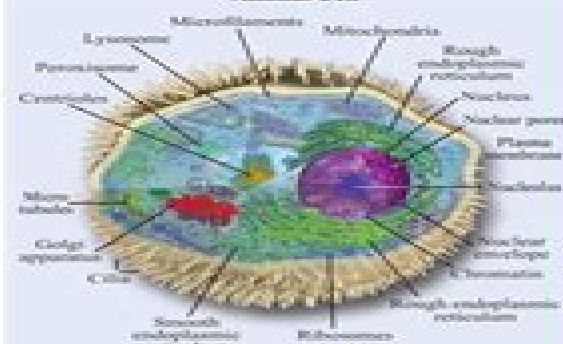
Eukaryotic Cells:

Complex cellular organization

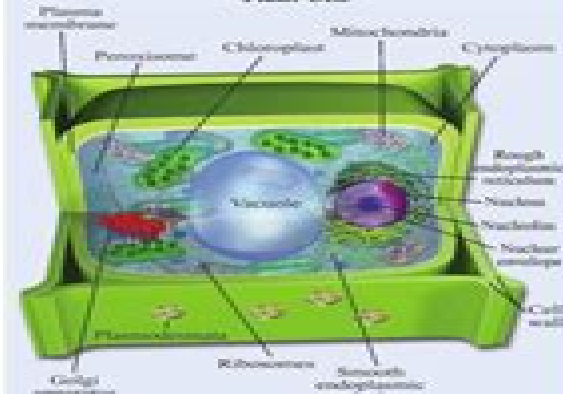
- A. Membrane: Bound organelles including the following:

1. Nucleus: DNA/chromosomes, control cellular activities via genes
2. Nucleolus: Located within nucleus, site for ribosome synthesis
3. Rough endoplasmic reticulum: With ribosomes, involved in protein synthesis
4. Smooth endoplasmic reticulum: Without ribosomes, involved primarily in lipid synthesis
5. Golgi apparatus: Packaging center for molecules; carbohydrate synthesis
6. Lysosome: Contains hydrolytic enzymes for intracellular digestion
7. Peroxisome: Involved in hydrogen peroxide synthesis and degradation
8. Chloroplast: Site of photosynthesis
9. Chromoplast: Non-green pigments
10. Leukoplast: Stores starch
11. Mitochondrion: ATP production
12. Vacuole: General storage and space-filling structure

Animal Cell



Plant Cell



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