Evolution, cytology, energy & life, cell transport, cell reproduction, organismal reproduction & melosis, genetics & Mandel, molecular & population genetics

BASIC CONCEPTS

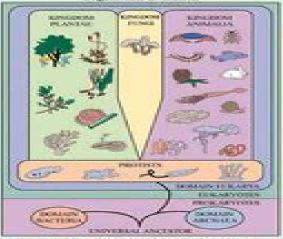
- 1. Bliefingy is the study of lide
- The characteristics of life are metabolism, reproduction, growth, movement, responsivement, and complex organization
- 3. The scientific method: How scientists study biology
- A. Bassed on the observation of phenomens to formulate hypotheses that are both testable and falsifiable (in case they are wrong)
- B. Used to test hypotheses, collect data, and analyze data statistically (if necessary)

EVOLUTION

Evidentian is the encoupt that all organisms are related to each other by common accuracy, it is the unifying theme in biology

- Natural selection: A mechanism, formulated by 19thcentury biologists Charles Darwin and Alfred Wallace, for the occurrence of evolution based on the survival of those offspring best adapted to the conditions in which they live
 - A. Individuals sexually reproduce, creating many more officering than could possibly survive
 - B. These offigring are not identical (in more situations) but show variations based on genetic differences.
 - C. Excentially, 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 solucting offigeing and stuping the evolution of species

Ovganismal Evolution



 Artificial selection: Humans select traits in an organism's offispring (e.g., pots, farm coops)
 Deservicated Animals



CYTOLOGY: THE STUDY OF CELLS

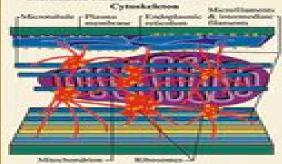
Cell Theory

All living things are composed of cells and come from cells

- Cell step: Small to maximize the ratio of surface area to volume for regulating the internal cell environment.
- Cell (plasma) membrane: Composed of a fluidilize phospholipid bilayer, proteins, ebolesterol, and phosperation.

Cell (Planes) Membrane

- Cell walk: Outside of the cell membrane in some organisms: composed of carbody-trace. (e.g., editalous for plants; childs for fungit-or carbody-drate derivatives (e.g., poptidiaghycan for backeria)
- 4. Cytoplasm: Material outside the nucleus
 - A. Site for metabolic activity
 - Cytosol: Solution with dissolved substances such as glocose, CO., O., etc.
 - C. Organelles: Membrane-bound subunits of orifs. Cowlete with specialized functions
- Cytoskeleton: Supportive and metabolic structure composed of microtobules, microfilaments, and intermediate filaments



Prokarvotic Cells

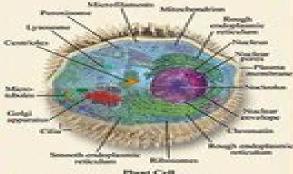
Prokarystes have a simple cellular organization with no nucleus or other membrane-bound organelies



Eukaryotic Cells

Enhangement have a complex cellular organization; membrane-bound enganelists, located inside the cell membrane, include the following:

- Nucleous Contains DNA in the form of chromosomes; controls cellular activities via poses.
- Nectorher: Located within the nucleur; site for phosone synthesis
- Hough endoplasmic reticulum: Has ribosomes, which are necessary for protein combesis
- Smooth endoplasmic reticulum: Involved primarily in ligid symbosis, as it lacks elbosomes
- 5. Golds apparatus: Packaging center for molecules; combolists carbolindrates
- 6. Lyonomet Contains bydrolytic outymes for intraoribite digotion
- Peroxisomer limitatived in hydrogen peroxide symbosis and decredation.
- Clidorophast: Site of photosynthesis.
- 9. Chromoplast: Contains mongroom pigments.
- 10. Lenkophest: Stores stands
- Mitochendrine: Produces adenosine triphosphute (ATP)
- 12. Vacasiles General storage and space-filling structure Animal Cell



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