Basic Concepts

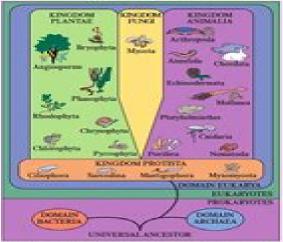
Biological Science: The Study of Life A. The Scientific Method. How scientists study biology

- 1. Observe phenomena and formulate testable and
- falsifiable (in case they are wrong) hypotheses 2. Test hypotheses, collect data, and analyze statistically (of mocessury)
- B. What is life?
 - 1. Characteristics: Metabolism, reproduction, growth, movement, responsiveness, complex organization

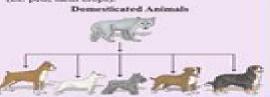
Ewolution

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 off evolutions
 - 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 dif-Sentences.
 - c. Essentially, those individuals with variations that allow them to survive (i.e., adaptations) to the age of reproduction can pass their gones on to the next generation
 - d. Thus, nature is selecting offspring and shaping the evulution of species
 - 2. Charles Durwin and Alfred Wollace, 19th century biologists, formulated the concept of natural selection Organismal Evolution



B. Actificial Selection: Human selects traits in offspring East pets, faces crops't.



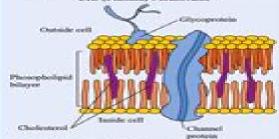
Cytology: The Study of Cells

Cell Theory:

All living things are composed of cells and come from

THE BASIC PRINCIPLES OF BIOLOGY

- A, Cell Size: Small to maximize surface area to volume natio for regulating internal cell environment
- Cell (Plasma) Membrane: Composed of fluid-like phospholipid bilaver, 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.

 - Site for metabolic activity
 Cytosol: Solutions with dissolved substances such as glacose, CO₂, O₃, etc.
 - Organelles: Membrane-bound subunits of cells with specialized functions
- E. Cytoskeletoe: Supportive and metabolic structure composed of microtubules, microfilaments, and intermediate filluments

Cytoskeleton Marchineses and intermediate Michael Barrellows

Prokaryotic Cells:

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

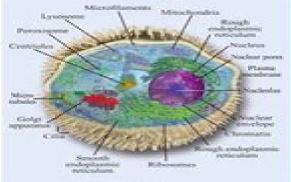


Eukaryotic Cells:

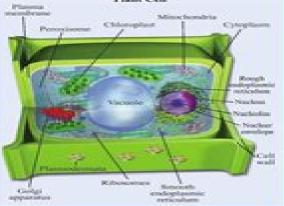
Complex cellular organization

- 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. Senooth endoplasmic reticulum: Without ribo-
- somes, involved primarily in lipid synthesis.
- 5. Golgi apparatus: Packaging center for molecules; carbohydrate synthesis
- 6. Lysosome: Contains bydrobytic enzymes for intracellular digestion.
- 7. Peroxisome: Involved in hydrogen peroxide synthesis and demadation.
- 8. Chloroplast: Site of photosynthesis.
- 9. Chromoplast: Non-groon pigments
- 10. Leukoplast: Stores stands
- 11. Misochondrion: ATP production
- 12. Vacuole: General storage and space-filling eliches Stune

Antonial Celli



Plant Cell.



Biology Quick Study Academic

W. Randy Brooks

Biology Quick Study Academic:

Biology Terminology Randy Brooks, 2013-12-31 Essential terminology for Biology study pulled together in one guide to maximize success in College and High School courses Succinct definitions by our resident Ph D Biology author and professor ensure the usefulness of this handy guide from high school to college **Biology** Jake Bernstein, 1996 Molecular Biology BarCharts, Inc, Randy Brooks, 2012-05-31 Annotation BarCharts three panel Molecular Biology QuickStudy R guide provides a detailed review of the principal areas of biology at the molecular level A perfect resource for students in an introductory molecular biology course or those in higher level courses who are in need of a refresher this guide includes up to date information on biomolecules DNA replication transcription and more all essential knowledge for the successful biology student Color coded sections are enhanced by diagrams and illustrations highlighting major processes and structures

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School Science and Mathematics, 1903

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