

# BIOLOGY

Evolution, cytology, energy & life, cell transport, cell reproduction, organismal reproduction & meiosis, genetics & Mendel, molecular & population genetics

### BASIC CONCEPTS

- Biology** is the study of life
- The characteristics of life are metabolism, reproduction, growth, movement, responsiveness, and complex organization
- The **scientific method**: How scientists study biology
  - Based on the observation of phenomena to formulate hypotheses that are both testable and falsifiable (in case they are wrong)
  - Used to test hypotheses, collect data, and analyze data statistically (if necessary)

### EVOLUTION

Evolution is the concept that all organisms are related to each other by common ancestry; it is the unifying theme in biology

- Natural selection**: A mechanism, formulated by 19th-century 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
  - Individuals sexually reproduce, creating many more offspring than could possibly survive
  - These offspring are not identical (in most situations) but show variations based on genetic differences
  - 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
  - Thus, nature is selecting offspring and shaping the evolution of species

### Organismal Evolution

**2. Artificial selection**: Humans select traits in an organism's offspring (e.g., pets, farm crops)

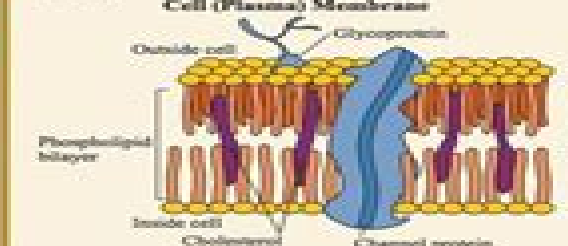
#### Domesticated Animals

## CYTOLOGY: THE STUDY OF CELLS

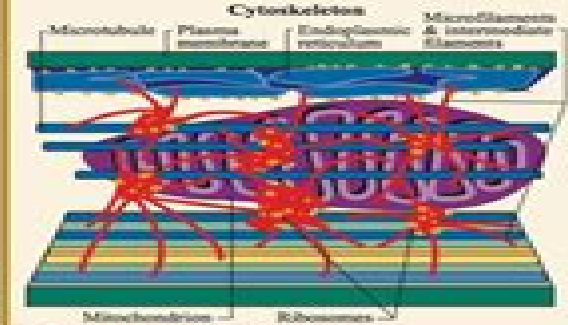
### Cell Theory

All living things are composed of cells and come from cells

- Cell size**: Small to maximize the ratio of surface area to volume for regulating the internal cell environment
- Cell (plasma) membrane**: Composed of a fluidlike phospholipid bilayer, proteins, cholesterol, and glycoproteins



- Cell wall**: Outside of the cell membrane in some organisms; composed of carbohydrates (e.g., cellulose for plants; chitin for fungi) or carbohydrate derivatives (e.g., peptidoglycan for bacteria)
- Cytoplasm**: Material outside the nucleus
  - Site for metabolic activity
  - Cytosol: Solution with dissolved substances such as glucose, CO<sub>2</sub>, O<sub>2</sub>, etc.
  - Organelles**: Membrane-bound subunits of cells with specialized functions
- Cytoskeleton**: Supportive and metabolic structure composed of microtubules, microfilaments, and intermediate filaments



### Prokaryotic Cells

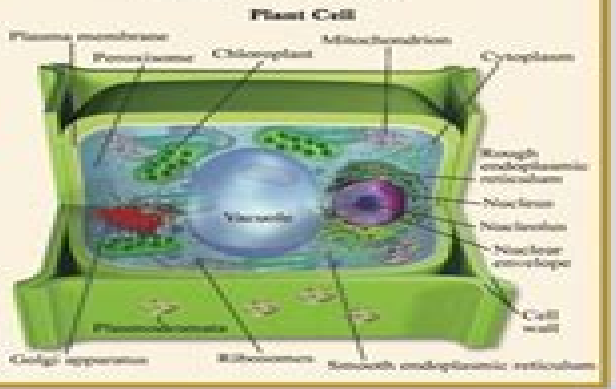
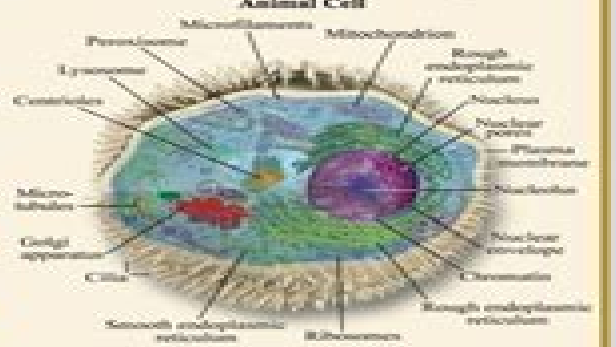
Prokaryotes have a simple cellular organization with no nucleus or other membrane-bound organelles



### Eukaryotic Cells

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

- Nucleus**: Contains DNA in the form of chromosomes; controls cellular activities via genes
- Nucleolus**: Located within the nucleus; site for ribosome synthesis
- Rough endoplasmic reticulum**: Has ribosomes, which are necessary for protein synthesis
- Smooth endoplasmic reticulum**: Involved primarily in lipid synthesis, as it lacks ribosomes
- Golgi apparatus**: Packaging center for molecules; synthesizes carbohydrates
- Lysosome**: Contains hydrolytic enzymes for intracellular digestion
- Peroxisomes**: Involved in hydrogen peroxide synthesis and degradation
- Chloroplast**: Site of photosynthesis
- Chromoplast**: Contains pigment pigments
- Leukoplast**: Stores starch
- Mitochondrion**: Produces adenosine triphosphate (ATP)
- Vacuole**: General storage and space-filling structure



# **Biology Study Guides**

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# Biology Study Guides

*Barron's Science 360: A Complete Study Guide to Biology with Online Practice* Gabrielle I. Edwards, Cynthia Pfirrmann, 2021-09-07 Barron's Science 360 Biology is your complete go to guide for everything biology This comprehensive guide is an essential resource for High school and college courses Homeschooling Virtual Learning Learning pods Inside you will find Comprehensive Content Review Begin your study with the basic building block of biology and build as you go Topics include the cell bacteria and viruses fungi plants invertebrates Homo sapiens biotechnology and much more Effective Organization Topic organization and simple lesson formats break down the subject matter into manageable learning modules that help guide a successful study plan customized to your needs Clear Examples and Illustrations Easy to follow explanations hundreds of helpful illustrations and numerous step by step examples make this book ideal for self study and rapid learning Practice Exercises Each chapter ends with practice exercises designed to reinforce and extend key skills and concepts These checkup exercises along with the answers and solutions will help you assess your understanding and monitor your progress Access to Online Practice Take your learning online for 50 practice questions designed to test your knowledge with automated scoring to show you how far you have come

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The College Board, 2017-03-07 The Official SAT Subject Test in Biology Study Guide is the best way to get ready for the SAT Subject Tests in Biology Created from the makers of the Subject Tests this guide offers never been released forms of actual past Biology exams for students to gain real practice Students will receive 2 full length previously administered tests in Biology Detailed answer explanations for every question in both tests Exclusive test taking approaches and tips from the actual test maker

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