

CELLULAR BASIS OF LIFE

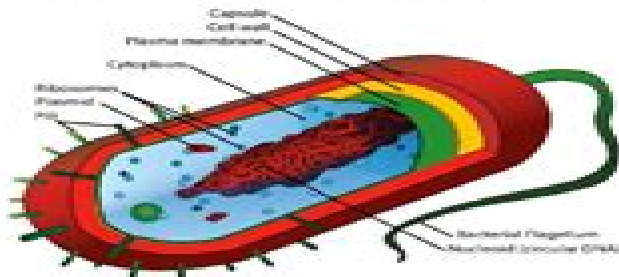
Cells provide structure and function for all living things, from microorganisms to humans.

- Cells house the biological machinery that makes the proteins, chemicals, and signals responsible for everything that happens inside our bodies.

Functions of the Cell

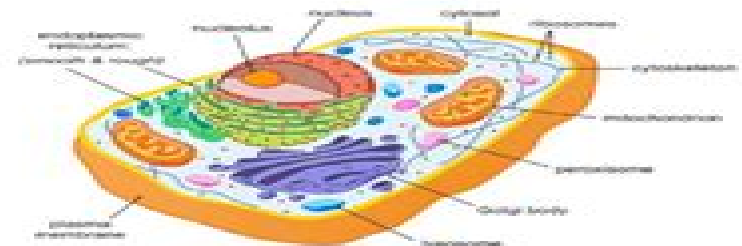
- Basic unit of life
- Protection and support
- Movement
- Communication
- Cell metabolism and energy release
- Inheritance

PROKARYOTIC CELLS



- Prokaryotic cells have no distinct nucleus or organelles enclosed within membranes.
- Species in the domains Archaeobacteria and Eubacteria have prokaryotic cells.

EUKARYOTIC CELLS



- Cells with distinct nucleus
- Cells with organelles enclosed within membranes

3 Main Regions of the Eukaryotic Cell

- **Nucleus:** the control center of the cell
- **Plasma Membrane (Cell Membrane):** defines the limit of the cell
- **Cytoplasm:** “factory area” of the cell (site of most cellular activities)

NUCLEUS

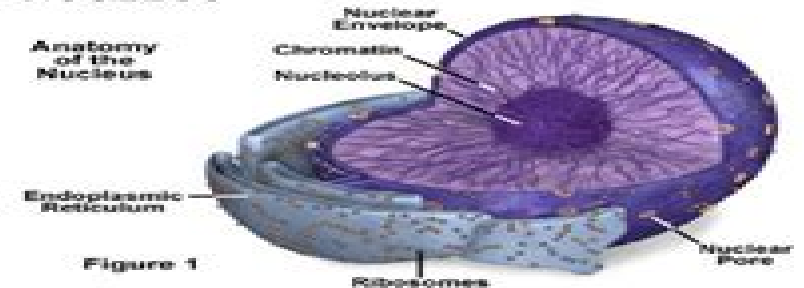


Figure 1

- The nucleus contains most of the genes that control the cell
- Occupies about 10 percent of a cell's volume

Parts of a Nucleus

- **Nuclear Envelope** - The nuclear envelope is a double-layered membrane that encloses the contents of the nucleus during most of the cell's lifecycle. A double-layered membrane, the nuclear envelope,

Cellular Basis Of Life Study Guide

Cybellium



Cellular Basis Of Life Study Guide:

Life Study Guide David E. Sadava, Gordon H. Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer

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Cell Biology Robert D. Dyson, 1974

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Modules McDougal Littell Incorporated, 2005

Films and Other Materials for Projection Library of Congress, 1974

Journal of the Indian Institute of Science Indian Institute of Science, Bangalore, 1983

Biology the Easy Way Gabrielle I. Edwards, 1990 This updated edition reviews fundamentals of biology on a high school and college 101 level It summarizes latest concepts and research in modern biology Topics covered include the cell bacteria and viruses fungi plants invertebrates chordates Homo Sapiens heredity genetics and biotechnology evolution ecology and much more Questions and answers for review and self testing are included

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