

CELLULAR BASIS OF LIFE

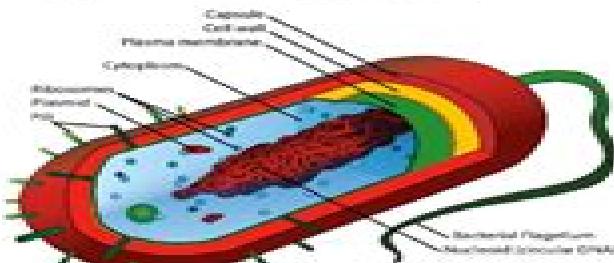
Cells provide structure and function for all living things, from microorganisms to humans.

- 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 Archaeabacteria 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

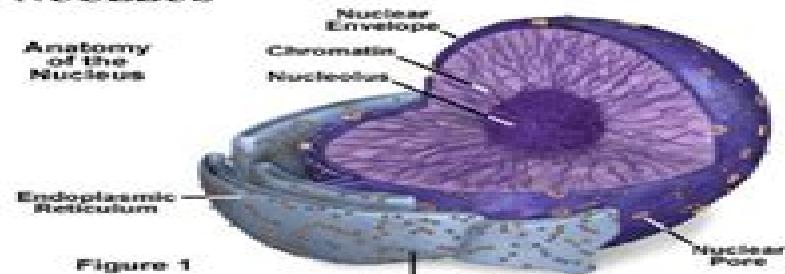


Figure 1

- 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

Mary Lillian Read

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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 Study Guide to Cell Biology Cybellium ,2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT AI Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you're a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey www.cybellium.com Student Study Guide for Campbell's Biology Second Edition Martha R. Taylor, 1990

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