



The diagram illustrates the internal structure of a cell, showing the nucleus and various organelles. The nucleus is the central control center, containing genetic material. The cytoplasm is filled with organelles that perform specific functions, such as the endoplasmic reticulum for protein synthesis and the Golgi apparatus for transport. The cell is bounded by a plasma membrane and a cell wall.

FACTFILE



Feature	Eukaryotic Cell	Prokaryotic Cell
Nucleus	Present	Absent
Membrane-bound organelles	Present	Absent
Cell wall	Absent	Present
Size	Large (10-100 micrometers)	Small (1-5 micrometers)

This factfile compares the key differences between eukaryotic and prokaryotic cells. Eukaryotic cells are larger and more complex, with a nucleus and various organelles. Prokaryotic cells are smaller and simpler, lacking a nucleus and membrane-bound organelles.