

Organelles in Eukaryotic Cells

What are the functions of different organelles in a cell?

Why?

The cell is the basic unit and building block of all living things. Organisms rely on their cells to perform all necessary functions of life. Certain functions are carried out within different structures of the cell. These structures are called **organelles**.

Model 1 – How Is a Cell Like a Factory?



Part of factory	Cell organelle	Function
Control room (E)	Nucleus	Contains and protects genetic material (DNA)
Factory manager	DNA/chromosomes	Information for making proteins
Assembly workers (F)	Ribosomes	Make proteins
Production line (B)	Endoplasmic reticulum (ER)	Transports and finishes proteins and other biological molecules
Custodians (A)	Lysosomes	help clean up cell (enzymes)
Power generators (H)	Mitochondria	create ATP energy
Shipping department (C)	Golgi apparatus	sends things where they need to go
Factory interior (G)	Cytoplasm	Space for work to be done
Items to be shipped	Vesicles	Cellular package containing products such as protein
Warehouse for storage of products	Vacuole	storage
Loading dock	Pores/gated channels	Points of entry and exit for materials
Security fence (D)	Cell membrane	controls what goes in and out of the cells

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How Eukaryotic and Prokaryotic Cells Differ Raina G. Merchant and Lesli J. Favor, 2015-01-01 Despite the vast diversity of living organisms on Earth all life falls into only one of two categories prokaryotes or eukaryotes Examining the basic parts of a cell cell types cell function and cell reproduction this concise volume explains what makes certain cells eukaryotic and others prokaryotic and how the two cell types are related Detailed diagrams complement the text to help readers easily identify various cell features and integrate textual and visual information in line with Common Core requirements What is an Organelle? Identifying Organelles and Examining Cell Organelle Functions | Grade 6-8 Life Science Baby

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