

Chapter 2: Cell Structure and Function

Section 2.1: Cell Structures, pp. 23–24

1. Cellular organelles have different shapes because it enables them to carry out different and specific functions.

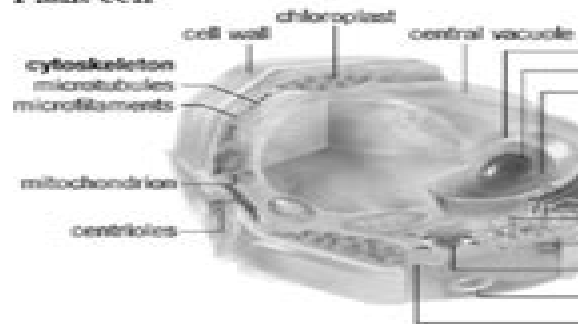
2. **Table 1** The Function of Organelles in Eukaryotic Cells

Organelle	Function
nucleus	protect and control access to the DNA
nucleolus	assemble subunits of ribosomes from proteins and RNA
endoplasmic reticulum (ER)	route and modify new polypeptide chains, synthesize lipids and other functions
Golgi body	modify new polypeptide chains, sort and ship proteins and lipids
vesicle	transportation, storage, digestion and other functions
mitochondrion	generate ATP and other molecules
plastid	involved in photosynthesis and storage

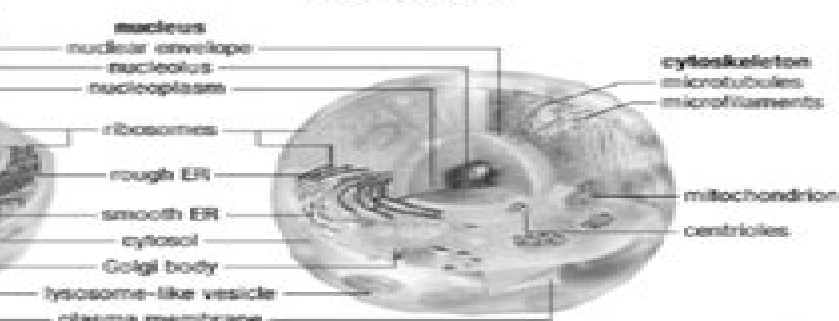
3. No, animal cells would not function better if they had central vacuoles and cell walls. Central vacuoles and cell walls help plant cells hold their shape and build the rigid structure that some plant parts, such as stems, require. Animals require the ability to move and would not benefit from these organelles.

4. Sketches should resemble diagrams below.

Plant cell



Animal cell



5. The protein tubulin is the main component of microtubules. The proteins actin and myosin are common components of microfilaments.

6. *Microtubules* help to move cell components, such as a cell's duplicated *chromosomes* during cell division. They rapidly assemble when needed and then disassemble. *Microfilaments* strengthen and change the shape of a eukaryotic cell. In this way they can help the cell move. Organized arrays of *microtubules* are found in *cilia* and *flagella* of eukaryotic cells. Elongated *microfilaments* in amoebas' *pseudopods*, or false feet, help these single-celled organisms move.

7. The primary cell wall in plants, which is mostly cellulose, is an extracellular matrix. The bones of vertebrates are an extracellular matrix. Bones are mostly collagen, a fibrous protein, hardened by mineral deposits. Bivalves' shells and insects' exoskeletons are also extracellular matrix.

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