

Biology Essential Standard 1.1

Understand the relationship between the structures and functions of cells and their organelles.

Bio.1.1.1 Summarize the structure and function of organelles in eukaryotic cells

Match these organelles with their functions:

- | | | |
|--------------------|---|---|
| a. Nucleus | 3 | 1. Sites of photosynthesis, contain chlorophyll. |
| b. Plasma Membrane | 5 | 2. Powerhouse of the cell, where cell respiration occurs. |
| c. Cell Wall | 6 | 3. Brain of the cell, contains the DNA & chromosomes. |
| d. Mitochondria | 2 | 4. Sites of protein synthesis, where mRNA & tRNA meet. |
| e. Vacuoles | 7 | 5. Cell's outer boundary, lipids & proteins, semipermeable. |
| f. Chloroplasts | 1 | 6. Found in plants only to maintain structure, not semipermeable. |
| g. Ribosomes | 4 | 7. Large in plants, small in animals, used for storage. |

2. Describe how these organelles interact with each other to perform the function of the cell:
- Nucleus and ribosome – DNA makes mRNA in the nucleus and sends it to the ribosome
 - Plasma membrane and mitochondria – plasma membrane takes in glucose and oxygen that is needed by the mitochondria for cell respiration. The PM also releases CO₂ from the process.
 - Cell wall and vacuole – as water goes into the vacuole, osmotic pressure builds up in the cell and the cell doesn't burst due to the strength of the cell wall.
 - Cell wall and chloroplasts - since the cell wall is not semipermeable, the materials needed for photosynthesis flow freely into the cell.
3. Draw a plant and animal cell and label the above organelles: please google animal cell and plant cell to check your drawings!!!
4. Explain how the structure of each organelle determines its function. (Example: folded inner membrane in mitochondria increases surface area for energy production during aerobic cellular respiration).
Nucleus – the semipermeable double-layered membrane of the nucleus keeps DNA and other substances in the nucleus and other things out

Plasma membrane – the semipermeable lipid bi-layer allows certain substances into the cell and keeps other substances out

Cell wall – the cell wall's stringy cellulose structure allows for everything to pass through while still maintaining structure when osmotic pressure increases

Mitochondria – see the question

Vacuoles – the single membrane and fluid contents of the vacuole help it store items

Chloroplast – the double membranes of the chloroplast allow for maximum absorption of sunlight

Ribosomes – consists of 2 parts – one part allows attachment of the mRNA and the other part allows for attachment of tRNA and amino acids during protein synthesis.

5. Summarize how these organelles interact to carry out life functions (Example: DNA codes for proteins which are assembled by the ribosomes and used as enzymes for energy production at the mitochondria). Match these:
- | | | |
|-------------------------------|---|---|
| a. energy production and use | 3 | 1. Wastes stored in vacuole are sent to plasma membrane. |
| b. transport of molecules | 2 | 2. Plasma membrane allows entrance, cytoplasm circulates. |
| c. disposal of waste | 1 | 3. Mitochondria makes ATP, ribosome uses it in protein synthesis. |
| d. synthesis of new molecules | 4 | 4. Nucleus sends mRNA to ribosome, tRNA brings AA to put |

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