

Vacuole For President

Team 2

Vote Vacuole For president

The Vacuole is like the storage bin of the cell. It is a very important organelle, that the Plant or some Animal cells would die without.

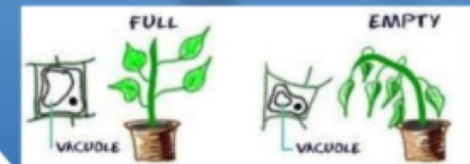
Do You Want The Cell To Live?

YES

Then Vote Vacuole For President!!!

Importance:

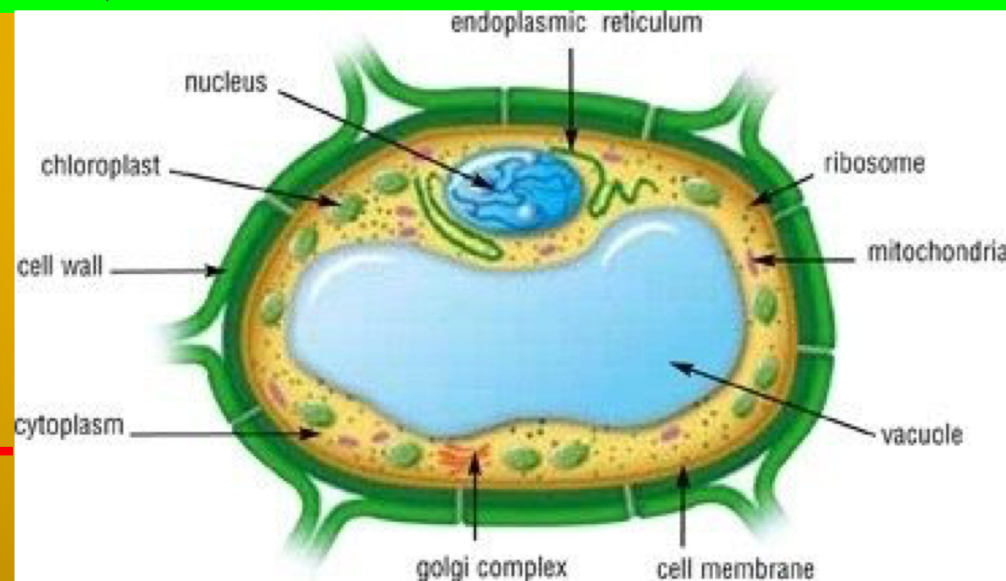
- Store proteins that help plants grow
- Without the Vacuole:
- Essential nutrients and wastes can not be stored
- Cell Wall and Membrane will collapse



- Stores food and nutrients a cell needs to survive
- Filled with either water or organic/inorganic molecules
- Serve functions essential to plant life
- Contains ATP Binding

What makes the Vacuole a good Candidate ?

The Vacuole is a very important organelle in a cell. The Vacuole stores Food, Water, Materials, and a variety of nutrients the cell needs to survive. It also provides extra support for the structure. Without the Vacuole, the cell would die from starvation.



How can the Vacuole make the cell a better place?

The Vacuole will make the cell a better place by storing food and water for the plant cell to survive. Without the Vacuole, the plant cell would die because the cell wouldn't be able to store all nutrients properly. Vacuoles play an important role in the smooth functioning of various processes of plant and protist cells.

What would the Vacuole do if given the power of presidency?

The Vacuole will gather more nutrients and protein, as well as food and water, to help the cell grow even bigger and stronger. The Vacuole will also provide extra support the cell and keep it alive

What does the Vacuole offer that makes it a suitable candidate?

Most of the plants cell volume depends on the material in the vacuoles and helps keep structure and support for the cell.

What the Vacuole does that other organelles don't

- The waste products generated in cells are accumulated in vacuoles. Thus, vacuoles protect other organelles of the cell from harmful effects of wastes.
- Maintaining the right pH level is one of the important functions of vacuoles. The vacuoles help in maintaining an acidic internal pH in cells. Apart from maintaining the cell pH, vacuoles also maintain the turgor and hydrostatic pressure.
- The toxins produced in cells have the potential to harm/disturb the health of cells. Vacuoles do the crucial job of isolating them from the rest of the cell components.
- Vacuoles play an important role in the process of autophagy - a process in which degradation of cell components takes place. Autophagy is a catabolic process in which components that are no longer needed by the cell undergo degradation. During the process of autophagy, vacuoles maintain a balance between biogenesis and degradation of substances in cells.
- Vacuoles are known to protect cells from certain bacteria. Destroying the bacteria that attack cells is an important function performed by vacuoles.
- The food vacuoles found in amoeba perform the important job of digestion.

VOTE VACUOLE

FOR

PRESIDENT