

VACUOLE

Meaning: A vacuole is a membrane-bound organelle in cells that primarily functions in storage, maintaining turgor pressure, and sometimes digestion of substances.

1. The plant cell's large central vacuole plays a crucial role in maintaining turgor pressure.
2. In some protists, vacuoles are involved in the storage and digestion of food particles.
3. Researchers discovered that the vacuole also serves as a site for the regulation of ion concentrations.
4. During the aging process, the vacuole can accumulate waste products that may affect cell function.
5. In certain algae, vacuoles are essential for buoyancy, helping them float toward sunlight.

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