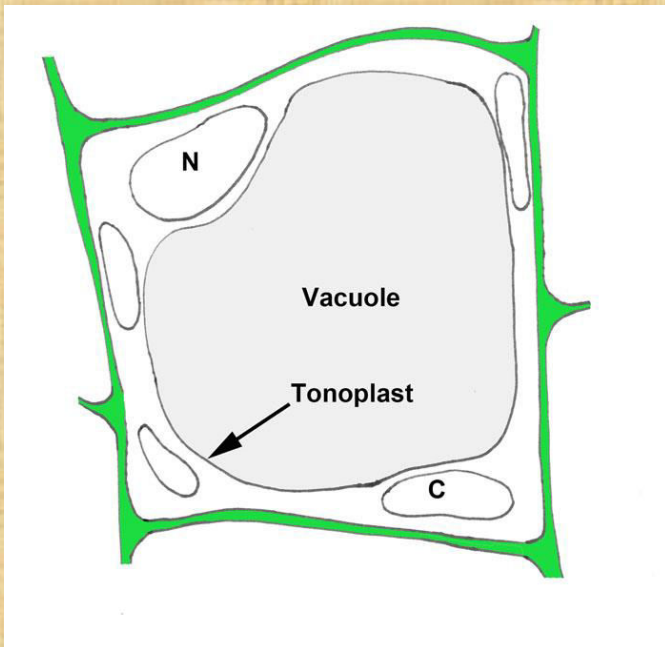


Chapter 8

CELL-THE UNIT OF LIFE

Vacuoles:

- Membrane bound space present in the cytoplasm.
- It contains water, sap excretory product and other materials not used by the cell.
- It is bound by single membrane called Tonoplast.
- In plant vacuole can occupy up to 90% volume of cell.
- In plant , concentration of vacuole is higher than the cytoplasm due to tonoplast facilitates the transport of ions and other materials against concentration gradient.



Functions:

1. In Amoeba, contractile vacuole is important for excretion.
2. In protists, food vacuole is formed by engulfing of food particles.

