

ACTIVITY 7

FUNGI

Identification of Different Organisms, Yeast, Penicillium, Ustilago Triticum

YEAST - (SACCHAROMYCES)

Preparation of Slide:

- (i) Put a drop of yeast material on a clean slide.
- (ii) Cover it with cover slip and observe under microscope.

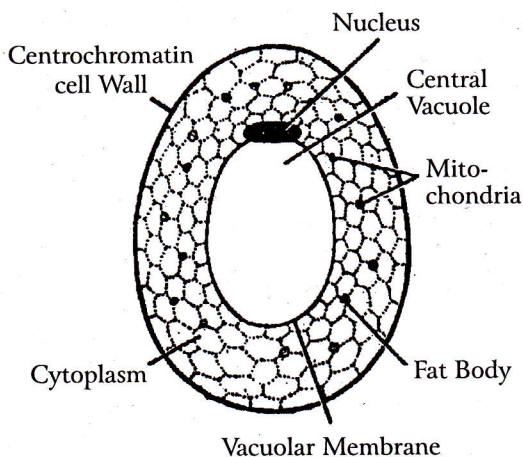


Fig. 13: Cell of Yeast

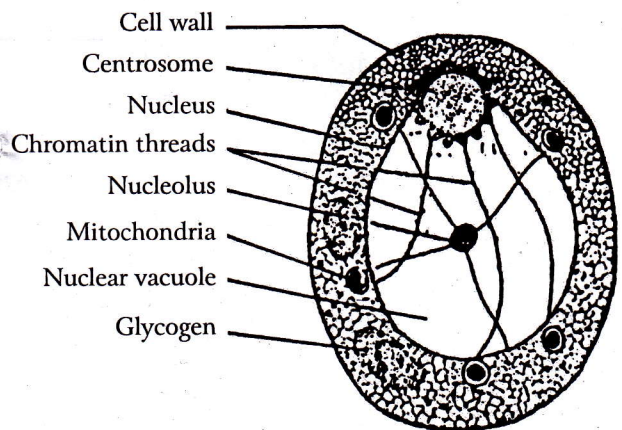


Fig. 14: Yeast

Characters:

1. It consists of a single cell and mostly lives as a **saprophyte** on fruits, leaves, soil and sugar materials.
2. Its cells are rounded, oval-shaped or rod-shaped.
3. Each cell is covered by an outer chitinous wall.
4. In the cell **cytoplasm** is present which consists of two parts, outer **ectoplasm** and inner **endoplasm**.
5. In the centre of cell **nucleus** is present which contains a large **vacuole**, called **nuclear-vacuole**.
6. In the nuclear vacuole **chromatin-network** and nucleolus are found.
7. The nucleus also has **centrosome** on one side.
8. In the cytoplasm **mitochondria** are also present.
9. The food material is stored in the form of oil globules and glycogen protein and starch grains in the cytoplasm.